MONACOR® INTERNATIONAL

ELECTRONICS FOR SPECIALISTS

MONACOR® img Stage Line® CARPOWER® by MONACOR

News 1/2014

DMP-230

Order No. 21.2970

482 mm 19" MP3 USB SD new

Dual MP3 player, with USB interface and SD/MMC card slot

- For USB and SD storage media
- Alphanumeric display
- Repeat function
- Preprogrammed equalizer settings
- Separate volume control for each player
- Balanced XLR outputs and unbalanced RCA outputs for each player
- Blue backlit displays
- 482 mm (19") rack installation

Model	DMP-230
General information	
Frequency range	20-20,000 Hz
THD	< 0.1 %
Channel separation	> 60 dB
Dynamic range	> 95 dB
S/N ratio	> 70 dB
Wow and flutter	-
Output, analogue	2 V (XLR, bal.)
	1 V (RCA)
Output, digital	-
Power supply	230 V~/50 Hz/10 VA
Admiss. ambient temp.	0-40 °C
Dim., player mech.	482x45x160 mm, 1 RS
Dim., control panel	-
Weight	2.2 kg
Connections	2 x USB A jack
	2 x SD/MMC card slot
Analogue output	2 x XLR L/R, bal.
	2 x RCA L/R

MPX-410DMP

Order No. 20.2850

482 mm 19" MP3 USB SD new

Stereo DJ mixer with integrated MP3 player and Bluetooth receiver

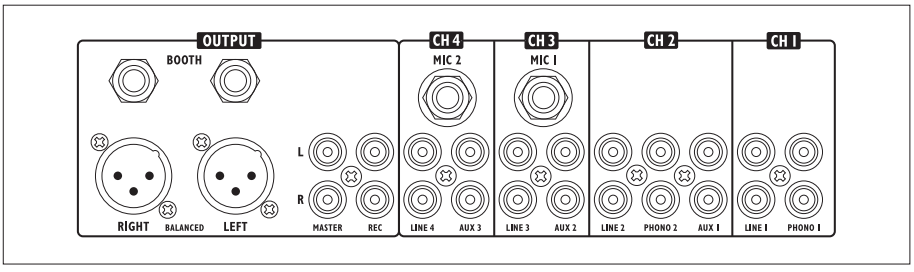
Mixer:

- 4 stereo input channels, switchable MP3/phono/line (channel 1), aux/phono/line (channel 2) and aux/mic/line (channels 3-4)
- Input channels, each with gain control and 2-way tone control
- 1 DJ microphone channel, adjustable, with 2-way tone control
- Adjustable headphone output with pre-fader listening (PFL) to the stereo input channels and the master output
- Crossfader with assignment switches
- Master output with stereo LED level display
- Additional outputs booth and record

MP3 player with Bluetooth receiver, USB interface and SD/MMC card slot:

- Bluetooth receiver for the wireless connection of laptops, smartphones or tablet PCs
- USB storage media can be connected directly (e.g. USB flash drive)
- For SD/MMC cards up to 32 GB (FAT 6/FAT 32), available at option
- Alphanumeric display
- Repeat function
- Blue backlit display

Model	MPX-410DMP
Mic input	1.5 mV
Phono input	2 mV (phono 1-2)
CD input	-
Line input	200 mV (line 1-4)
	200 mV (aux 1-3)
Master output	1 V (XLR, bal.)
Record output	400 mV (tape)
	1 V (booth)
Headphones	≥ 8 Ω, stereo
Frequency range	20-20,000 Hz
THD	< 0.15 %
S/N ratio	> 60 dB, unweighted
Equalizer, bass	±15 dB/50 Hz (ch. 1-4)
	±12 dB/100 Hz (DJ mic)
Equalizer, treble	±15 dB/10 kHz (ch. 1-4)
	±12 dB/7 kHz (DJ mic)
Power supply	230 V~/50 Hz/15 VA
Admiss. ambient temp.	0-40 °C
Dimensions	482x88x105 mm, 2 RS
Weight	2.2 kg



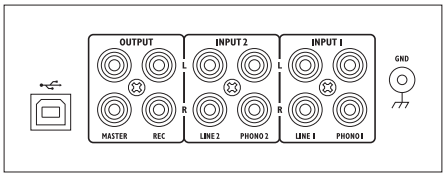
MPX-20USB

Order No. 20.2860

3-channel stereo DJ mixer, with USB interface.
Plug and mix!

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full duplex USB ports (allows for simultaneous recording and reproduction) for the reproduction of digital audio data from a PC as well as for recording mixings onto a PC
- 1 microphone input channel
- 2 stereo input channels, switchable line/phono and USB/line/phono
- 1 stereo output channel (master)
- 1 stereo record output
- Pre-fader listening (CUE) to the stereo input channels via adjustable headphone output
- Crossfader
- LED level display
- Robust metal housing of compact size
- Power supply via USB interface or optional PSU with USB port

Model	MPX-20USB
Mic input	1 mV
Phono input	9 mV
Line input	450 mV
Master output	1 V
Record output	1 V
Headphones	≥ 8 Ω
Frequency range	20-20,000 Hz
THD	0.1 %
S/N ratio	63 dB, unweighted
Power supply	5 V⎓/500 mA
	via USB interface
Admiss. ambient temp.	0-40 °C
Dimensions	150x70x140 mm
Weight	700 g



MMX-11USB

Order No. 20.2840

2-channel miniature audio mixer, with 3 inputs and USB interface

- Integrated USB audio interface (will be identified and addressed as an external sound card)
- Full duplex USB port (allows for simultaneous recording and reproduction) for the reproduction of digital audio data from a PC and for recording mixings onto a PC
- 1 mono input channel with gain control, 2-way equalizer and pan pot control, peak LED
- 1 stereo input channel with level control, 2-way equalizer and balance control
- Tape record/play connections
- 1 x 3.5 mm stereo output (master)
- Adjustable headphone output
- +20 V phantom power, permanent
- Clip LED
- Robust metal housing of compact size

Model	MMX-11USB
General Information	
Sensitivity	
Mic	0.5 mV
Line	2 mV (channel 1)
	150 mV (channel 2)
Tape	420 mV
Outputs	
Master, stereo L/R	6 V max.
Monitor	6 V max.
(headphones)	
Frequency range	20-20,000 Hz
THD	< 0.05 %
S/N ratio	81 dB, weighted
Equalizer	
Bass	±15 dB/80 Hz
Treble	±15 dB/12 kHz
Phantom power	+20 V
Power supply	via USB interface
	or via suppl. PSU
Admiss. ambient temp.	0-40 °C
Dimensions	102x45x140 mm
Weight	430 g
Inputs	1 x combo (XLR/6.3 mm jack, mic/line)
	1 x RCA L/R, line in
	1 x RCA L/R, tape in
Outputs	1 x 3.5 mm jack, main out
	1 x 3.5 mm jack, monitor
	1 x RCA L/R, tape out

PMX-122FX

Order No. 20.2870

DIGITAL 600 W MAX new

Powered mixer, 2 x 400 W_{RMS}/2 x 600 W_{MAX}/4 Ω, with digital amplifier and 2 DSP effect units.

- Audio mixer and digital amplifier in a metal housing
- 12 mono input channels, each with gain control, 3-way equalizer with semiparametric midrange, low cut and pan pot
- 2 stereo input channels, each with gain control, 4-qay equalizer and balance control
- 2 x DSP, each with 100 different effects, e.g. reverb, hall, echo and multi-effects
- Integrated, adjustable compressor/limiter
- Adjustable stereo aux return inputs and FX send outputs
- Control room function
- Inserts for the mono input channels
- Tape record/play connections
- +48 V phantom power, can be switched on additionally for each input channel group
- Adjustable headphone output
- 7-band graphic equalizer
- Stereo LED level display
- Connection for gooseneck light GNL-304, GNL-305 or GNL-314

Model	PMX-122FX
Mixer module	
Input sensitivity	
Mic, mono	0.5 mV, bal.
Line, mono	2 mV, bal.
Line, stereo	8 mV, bal.
Insert, mono	80 mV
Tape, stereo	60 mV
Aux, stereo	60 mV, bal.
Outputs	
Master, stereo L/R	1.5 V, bal.
Control room, stereo	10 V
Record, stereo	680 mV
Insert, mono	
Aux1, mono	10 V
Aux2, mono	10 V
Headphones, stereo	≥ 8 Ω
Equalizer	
Bass	±15 dB/80 Hz
Midrange	±15 dB/100-8,000 Hz (mono channels)
	±15 dB/500 Hz (stereo channels)
	±15 dB/3 kHz (stereo channels)
Treble	±15 dB/12 kHz
Graphic equalizer	±15 dB, 63/160/400 Hz
	1/2.5/6.3/16 kHz
Phantom power	+48 V
Amplifier module	
RMS output power	2 x 400 W_{RMS}/4 Ω
	2 x 300 W_{RMS}/8 Ω
Frequency range	20-20,000 Hz
S/N ratio	89 dB
THD	< 0.04 %
Crosstalk	-63 dB
General Information	
Power supply	230 V~/50 Hz/1,250 VA
Admiss. ambient temp.	0-40 °C
Dimensions	545x145x465 mm
Weight	12.5 kg

PMX-64FX

Order No. 20.2880

DIGITAL 600 W MAX new

Powered mixer, 2 x 400 W_{RMS}/2 x 600 W_{MAX}/4 Ω, with digital amplifier and DSP effect unit.

- Audio mixer and digital amplifier in a metal housing
- 6 mono input channels, each with PAD switch, 3-way equalizer and pan pot
- 3 stereo input channels, each with 3-way equalizer and balance control
- 1 stereo input channel with balance control
- DSP with 100 different effects, e.g. reverb, hall, echo and multi-effects
- Integrated, adjustable compressor/limiter
- Stereo aux return inputs and FX send outputs
- Tape record/play connections
- +48 V phantom power, can be switched centrally
- Adjustable headphone output
- 7-band graphic equalizer for master output and monitor output each
- Stereo LED level display
- Connection for gooseneck light GNL-304, GNL-305 or GNL-314

Model	PMX-64FX
Mixer module	
Input sensitivity	
Mic, mono	1 mV, bal.
Line, mono	10 mV, bal.
Line, stereo	75 mV, bal.
Insert, mono	-
Tape, stereo	100 mV
Aux, stereo	80 mV, bal.
Outputs	
Master, stereo L/R	1.5 V, bal.
Control room, stereo	10 V (monitor)
Record, stereo	800 mV
Insert, mono	
Aux1, mono	10 V
Aux2, mono	-
Headphones, stereo	≥ 8 Ω
Equalizer	
Bass	±15 dB/80 Hz
Midrange	±12 dB/2.5 kHz
Treble	±15 dB/12 kHz
Graphic equalizer	±15 dB, 63/160/400 Hz
	1/2.5/6.3/16 kHz
Phantom power	+48 V
Amplifier module	
RMS output power	2 x 400 W_{RMS}/4 Ω
	2 x 300 W_{RMS}/8 Ω
	1 x 700 W_{RMS}/8 Ω (bridge)
Frequency range	20-20,000 Hz
S/N ratio	89 dB
THD	< 0.04 %
Crosstalk	-63 dB
General Information	
Power supply	230 V~/50 Hz/1,250 VA
Admiss. ambient temp.	0-40 °C
Dimensions	465x150x395 mm
Weight	10.1 kg

STA-2000D

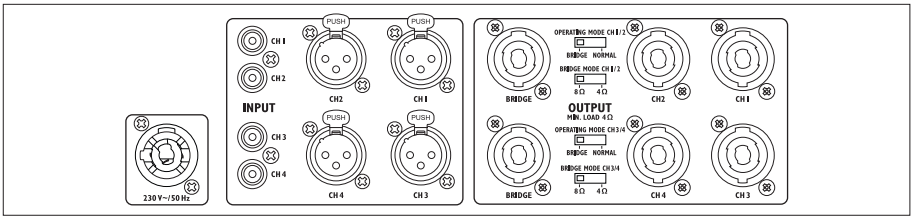
Order No. 25.5220

482 mm 19" 2400 W MAX new

4-channel digital PA amplifier

- Class D concept
- Excellent acoustic performance
- Extra wide dynamic range with very low THD
- Excellent impulse response also in the bass range
- 482 mm (19") rack installation, 2 RS
- 2 or 4 channels with bridge
- Silent operation due to temperature-controlled fans
- Lightweight design due to compact switch-mode PSU
- Energy-saving concept due to high efficiency
- 4 level controls
- Protected against short circuit, overtemperature, DC voltage at the output and overload
- LEDs for indicating power, signal, bridge, overload (clip), overheating and protect
- Bridge operation
- Wide mains voltage range of 85-265 V~
- NEUTRIK POWERCON and SPEAKON connections

Model	STA-2000D
Output power	
RMS power	
4 Ω	4 x 500 W_{RMS}
	4 x 580 W_{MAX}
8 Ω	4 x 280 W_{RMS}
	4 x 310 W_{MAX}
8 Ω bridge operation	2 x 1,000 W_{RMS}
	2 x 1,060 W_{MAX}
Max. power	2,400 W_{MAX}
General information	
Inputs	1 V/10 kΩ (XLR, bal.),
	1 V/5 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 119 dB, A-weighted
Crosstalk attenuation	-
THD	< 0.05 %
Power supply	230 V~/50 Hz/2,320 VA
Admiss. ambient temp.	0-40 °C
Dimensions	482x335x89 mm, 2 RS
Weight	6.6 kg
Connections	1 x NEUTRIK POWERCON
	4 x 3-pole XLR
	4 x RCA
	4 x NEUTRIK SPEAKON
	2 x NEUTRIK SPEAKON bridge



STA-1000D

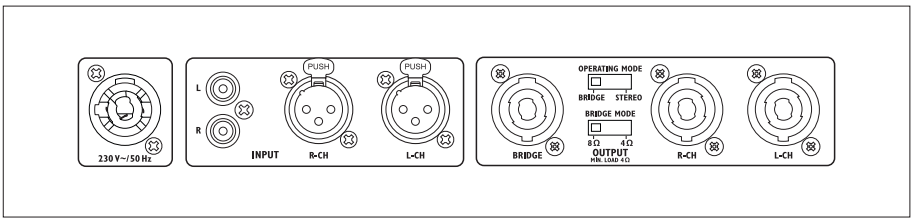
Order No. 25.5210

482 mm 19" 1200 W MAX new

Digital stereo PA amplifier

- Class D concept
- Excellent acoustic performance
- Extra wide dynamic range with very low THD
- Excellent impulse response also in the bass range
- 482 mm (19") rack installation, 2 RS
- Silent operation due to temperature-controlled fans
- Lightweight design due to compact switch-mode PSU
- Energy-saving concept due to high efficiency
- 2 level controls
- Protected against short circuit, overtemperature, DC voltage at the output and overload
- LEDs for indicating power, signal, bridge, overload (clip), overheating and protect
- Bridge operation
- Wide mains voltage range of 85-265 V~
- NEUTRIK POWERCON and SPEAKON connections

Model	STA-1000D
Output power	
RMS power	
4 Ω	2 x 500 W_{RMS}
	2 x 580 W_{MAX}
8 Ω	2 x 280 W_{RMS}
	2 x 310 W_{MAX}
8 Ω bridge operation	1 x 1,000 W_{RMS}
	1 x 1,060 W_{MAX}
Max. power	1,200 W_{MAX}
General information	
Inputs	1 V/10 kΩ (XLR, bal.),
	1 V/5 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 119 dB, A-weighted
Crosstalk attenuation	-
THD	< 0.05 %
Power supply	230 V~/50 Hz/1,160 VA
Admiss. ambient temp.	0-40 °C
Dimensions	482x335x89 mm, 2 RS
Weight	5.85 kg
Connections	1 x NEUTRIK POWERCON
	1 x 3-pole XLR L/R
	1 x RCA L/R
	1 x NEUTRIK SPEAKON L/R
	1 x NEUTRIK SPEAKON bridge



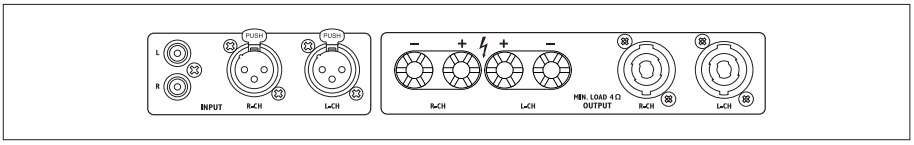
STA-800D

Order No. 25.5200

482 mm 19" TABLE TOP UNIT 1000 W MAX new

Digital stereo PA amplifier

- Class D concept
- 482 mm (19") rack installation, 1 RS, with supplied mounting brackets
- Silent operation due to temperature-controlled fans
- Lightweight design due to compact switch-mode PSU
- Energy-saving concept due to high efficiency
- High power reserves due to the application of two switch-mode PSUs
- Powerful bass reproduction due to large buffer capacitors (high power reserves)
- 2 level controls
- Protected against short circuit and overtempera-ture
- LEDs for indicating power, overload (clip) and protect
- Extra slim design
- NEUTRIK SPEAKON connections



Model	STA-800D
Output power	
RMS power	
4 Ω	2 x 400 W_{RMS}
	2 x 470 W_{MAX}
8 Ω	2 x 210 W_{RMS}
	2 x 270 W_{MAX}
8 Ω bridge operation	-
Max. power	1,000 W_{MAX}
General information	
Inputs	1 V/10 kΩ (XLR, bal.),
	1 V/4.7 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 110 dB, A-weighted
Crosstalk attenuation	-
THD	< 0.004 %
Power supply	230 V~/50 Hz/920 VA
Admiss. ambient temp.	0-40 °C
Dimensions	482x298x52 mm, 1 RS
Weight	3 kg
Connections	1 x 3-pin IEC jack
	1 x 3-pole XLR L/R
	1 x RCA L/R
	1 x NEUTRIK SPEAKON L/R
	2 x pair of screw terminals

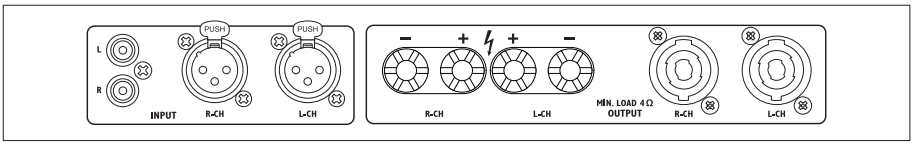
STA-400D

Order No. 25.5190

482 mm 19" TABLE TOP UNIT 700 W MAX new

Digital stereo PA amplifier

- Class D concept
- 482 mm (19") rack installation, 1 RS, with supplied mounting brackets
- Silent operation due to temperature-controlled fans
- Lightweight design due to compact switch-mode PSU
- Energy-saving concept due to high efficiency
- Powerful bass reproduction due to large buffer capacitors (high power reserves)
- 2 level controls
- Protected against short circuit and overtempera-ture
- LEDs for indicating power, overload (clip) and protect
- Extra slim design
- NEUTRIK SPEAKON connections



Model	STA-400D
Output power	
RMS power	
4 Ω	2 x 270 W_{RMS}
	2 x 325 W_{MAX}
8 Ω	2 x 180 W_{RMS}
	2 x 240 W_{MAX}
8 Ω bridge operation	-
	-
Max. power	700 W_{MAX}
General information	
Inputs	1 V/10 kΩ (XLR, bal.),
	1 V/4.7 kΩ (RCA)
Frequency range	20-20,000 Hz
S/N ratio	> 110 dB, A-weighted
Crosstalk attenuation	-
THD	< 0.02 %
Power supply	230 V~/50 Hz/600 VA
Admiss. ambient temp.	0-40 °C
Dimensions	482x277x52 mm, 1 RS
Weight	2.5 kg
Connections	1 x 3-pin IEC jack
	1 x 3-pole XLR L/R
	1 x RCA L/R
	1 x NEUTRIK SPEAKON L/R
	2 x pair of screw terminals

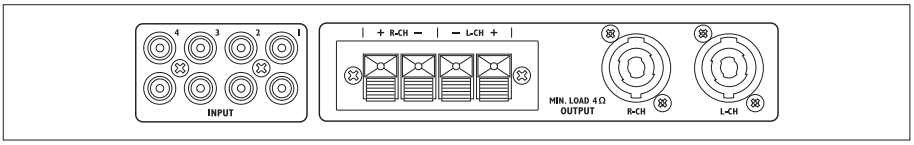
STA-200D

Order No. 25.5070

482 mm 19" TABLE TOP UNIT 300 W MAX new

Digital stereo PA amplifier, with 5 switchable line inputs.

- Class D concept
- Silent operation due to fanless cooling concept
- High power reserves due to generously dimen-sioned toroidal core transformer
- High-efficiency power amplifiers
- 3.5 mm stereo connection with adjustable sensitivity on the front panel
- 2 level controls
- Protected against short circuit, overvoltage and overtemperature
- LEDs for indicating power, overload (clip), protect and overheating
- Extra slim and robust design, 1 RS



Model	STA-200D
Output power	
RMS power	
4 Ω	2 x 125 W_{RMS}
8 Ω	2 x 75 W_{RMS}
8 Ω bridge operation	-
Max. power	300 W_{MAX}
General information	
Inputs	1 V/23 kΩ (RCA),
	90 mV-1 V (jack)
Frequency range	20-20,000 Hz
S/N ratio	> 100 dB, A-weighted
Crosstalk attenuation	> 56 dB
THD	< 0.05 %
Power supply	230 V~/50 Hz/350 VA
Admiss. ambient temp.	0-40 °C
Dimensions	483x44x268 mm, 1 RS
Weight	4.7 kg
Connections	1 x 3.5 mm stereo jack
	4 x RCA L/R
	1 x SPEAKER L/R
	1 x spring-load. speaker term. L/R

TXS-1800

Order No. 25.5130

2015 new

Multifrequency receiver unit,1.8 GHz, with UHF PLL technology.

- 192 selectable UHF frequencies (1,785-1,800 MHz) in 16 groups with 12 channels each
- ADL function for transmitting the selected parameters to pocket transmitter TXS-1800HSE or hand-held microphone TXS-1800HT via infrared signal
- True diversity system with removable antennas (BNC connection)
- Autoscan
- Pilot tone squelch, noise mute
- Autolock mode
- LCD for indicating frequency, antenna A/B, RF receiving level, AF audio level, channel/group
- XLR output and 6.3 mm output
- Supplied with PSU
- 482 mm (19") rack installation possible with supplied mounting brackets

Model	TXS-1800
Carrier frequency	1,785-1,800 MHz
Audio frequency range	60-16,000 Hz
THD	< 0.8 %
Dynamic range	> 95 dB
Audio signal	50 mV/1 kΩ (jack)
	50 mV/150 Ω (XLR, bal.)
Admiss. ambient temp.	0-40 °C
Power supply	via suppl. PSU
Dimensions	212x47x175 mm
Weight	1,300 g

TXS-1800HT

Order No. 25.5150

2015 new

Hand-held microphone with integrated multifrequency transmitter, 1.8 GHz, with UHF PLL technology.

- Dynamic microphone cartridge, cardiod characteristic
- Diecast aluminium body
- 192 selectable UHF frequencies (1,785-1,800 MHz) in 16 groups with 12 channels each, can be synchronised with the receiver TXS-1800 via ADL function
- Adjustable sensitivity (0 dB, -3 dB, -6 dB)
- LCD for indicating frequency, gain setting and battery status
- Transmitting power: 10 mW (EIRP)
- Mute function
- Autolock mode
- Power supply via 2 x 1.5 V battery AA size (not supplied)

Licence-free in the EU.

Model	TXS-1800HT
Carrier frequency	1,785-1,800 MHz
Audio frequency range	60-16,000 Hz
Frequency stability	±0.005 %
Operating time	> 8 h
Dimensions	ø 53 mm x 245 mm
Weight	350 g

TXS-1800HSE

Order No. 25.5140

2015 new

Multifrequency pocket transmitter, 1.8 GHz, with UHF PLL technology.

- Suitable for the combination with headband microphone or earband microphone with 3-pole mini XLR connector
- 192 selectable UHF frequencies (1,785-1,800 MHz) in 16 groups with 12 channels each, can be synchronised with the receiver TXS-1800 via ADL function
- Adjustable sensitivity (0 dB, -3 dB, -6 dB)
- LCD for indicating frequency, gain setting and battery status
- Transmitting power: 10 mW (EIRP)
- Mute function
- Autolock function
- Belt clip
- Power supply via 2 x 1.5 V battery AA size (not supplied)

Licence-free in the EU.

Model	TXS-1800HSE
Carrier frequency	1,785-1,800 MHz
Audio frequency range	60-16,000 Hz
Frequency stability	±0.005 %
Operating time	> 8 h
Dimensions	64x102x28 mm
Weight	95 g

TXS-920

Order No. 25.5240

2-channel multifrequency receiver unit, with UHF PLL technology.

- 2 licence-free frequency ranges (E band: 823-832 MHz and 863-865 MHz)
- 442 selectable channels
- Intermodulation-free presets, 4 groups with 8 channels each
- 12 intermodulation-free channels max. can be used in parallel (autoscan)
- SYNC function for transmitting the selected frequency to pocket transmitter TXS-900HSE or hand-held microphone TXS-900HT via infrared signal
- Autoscan with intermodulation detection
- True diversity system with removable antennas (BNC connection)
- Pilot tone squelch

- Volume and squelch controls
- LCD for indicating group/channel, frequency, RF receiving level, AF audio level
- XLR output (bal.) and 6.3 mm output (unbal.) for each channel, switchable mic/line
- 6.3 mm output for mixed signal (line)
- Robust metal housing
- Supplied with PSU
- 482 mm (19") rack installation possible with supplied mounting brackets

Model	TXS-920
Carrier frequency	823-832 MHz + 863-865 MHz
RF S/N ratio	> 100 dB
Audio frequency range	80-18,000 Hz
THD	< 1 %
Dynamic range	> 100 dB
Audio output	line: 75 mV, mic: 7 mV (jack, unbal.)
	line: 150 mV, mic: 15 mV (XLR, bal.)
	75 mV (mix)
Admiss. ambient temp.	0-40 °C
Power supply	via suppl.
	plug-in PSU
Dimensions	482x42x183 mm
Weight	2.3 kg

TXS-900

Order No. 25.5230

Multifrequency receiver unit, with UHF PLL technology.

- 2 licence-free frequency ranges (E band: 823-832 MHz and 863-865 MHz)
- 442 selectable channels
- Intermodulation-free presets, 4 groups with 8 channels each
- 12 intermodulation-free channels max. can be used in parallel (autoscan)
- SYNC function for transmitting the selected frequency to pocket transmitter TXS-900HSE or hand-held microphone TXS-900HT via infrared signal
- Autoscan with intermodulation detection
- True diversity system with removable antennas (BNC connection)
- Pilot tone squelch
- Volume and squelch controls
- LCD for indicating group/channel, frequency, RF receiving level, AF audio level
- XLR output (bal.) and 6.3 mm output (unbal.), switchable mic/line
- Robust metal housing
- Supplied with PSU
- 482 mm (19") rack installation possible with supplied mounting brackets

Model	TXS-900
Carrier frequency	823-832 MHz + 863-865 MHz
RF S/N ratio	> 100 dB
Audio frequency range	80-18,000 Hz
THD	< 1 %
Dynamic range	> 100 dB
Audio output	line: 75 mV, mic: 7 mV (jack, unbal.)
	line: 150 mV, mic: 15 mV (XLR, bal.)
Admiss. ambient temp.	0-40 °C
Power supply	via suppl.
	plug-in PSU
Dimensions	200x42x183 mm
Weight	1.1 kg

TXS-900HT

Order No. 25.5260

Hand-held microphone with integrated multifrequency transmitter, with UHF PLL technology.

- Condenser microphone cartridge, cardioid characteristic
- 2 frequency ranges (E band: 823-832 MHz and 863-865 MHz)
- SYNC function for the synchronisation with receivers TXS-900 and TXS-920
- Mute function
- LCD for indicating channel and battery status
- Power supply via 2 x 1.5 V battery AA size (not supplied)

Licence-free in the EU.

Model	TXS-900HT
Carrier frequency	823-832 MHz + 863-865 MHz
Transmitting power	10 mW
Audio frequency range	80-18,000 Hz
Frequency stability	±0.005 %
Operating time	> 15 h
Dimensions	ø 53 mm x 260 mm
Weight	250 g

TXS-900HSE

Order No. 25.5250

Multifrequency pocket transmitter, with UHF PLL technology.

- 2 frequency ranges (E band: 823-832 MHz and 863-865 MHz)
- SYNC function for the synchronisation with receivers TXS-900 and TXS-920
- Mute function
- Sensitivity can be adjusted in 3 steps
- LCD for indicating channel and battery status
- Suitable for the combination with headband/earband microphones and tie clip microphones with 3-pole mini XLR connector
- Belt clip
- Power supply via 2 x 1.5 V battery AA size (not supplied)

Licence-free in the EU.

Model	TXS-900HSE
Carrier frequency	823-832 MHz + 863-865 MHz
Transmitting power	10 mW
Audio frequency range	80-18,000 Hz
Frequency stability	±0.005 %
Operating time	> 15 h
Dimensions	65x110x25 mm
Weight	90 g

The Improvement of the Transmission Quality and Maximising the Operating Range

ensure reliability and provide flexibility! These features have been realised by an innovative circuit design and a switchable transmitting power. A high-quality wireless audio transmission of up to 300 m in a free field outdoors is thus possible without any problems!
Rapid transmission: due to REMOSET, the frequency of a corresponding hand-held transmitter or pocket transmitter can easily be set up via the receiver. It is possible to remotely set the desired transmission channel at the transmitter via radio signal, no visual contact required. This can even be done during a live performance! An intelligent carrier analysis method provides user support by only allowing transmission channels on which no other transmitter is active.

TXS-865

Order No. 25.5290

2-channel diversity UHF PLL receiver, with REMOSET technology.

- 124 selectable channels in 6 channel groups (506-542 MHz)
- Parallel operation of up to 20 channels
- Diversity system with removable antennas (BNC connection)
- Integrated scan function
- Pilot tone squelch and noise squelch
- Attenuator with 2-way switching
- LCD for indicating receiver channel/receiver group, audio level/RF level, mute, lock, active antenna and battery status of the transmitter
- XLR output for each channel, bal.
- 6.3 mm output for mixed signal, bal.
- 482 mm (19") rack installation possible with supplied mounting brackets
- Supplies operating voltage to TXS-870B

Model	TXS-865
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6 %
Dynamic range	> 105 dB
Output voltage	100 mV XLR, 100 mV jack
Connections	XLR, bal., 6.3 mm jack, bal.
Power supply	via suppl. PSU
Operating time	-
Dimensions	420x54x230 mm
Weight	2 kg

TXS-855

Order No. 25.5280

Single-channel diversity UHF PLL receiver, with REMOSET technology.

- 124 selectable channels in 6 channel groups (506-542 MHz)
- Parallel operation of up to 20 channels
- Diversity system with removable antennas (BNC connection)
- Integrated scan function
- Pilot tone squelch and noise squelch
- Level of the audio signal can continuously be adjusted
- 20 dB attenuator (XLR)
- LCD for indicating receiver channel/receiver group, audio level/RF level, mute, lock, active antenna and battery status of the transmitter
- XLR output, bal.
- 6.3 mm output, bal.
- Supplies operating voltage to TXS-870B

Model	TXS-855
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6 %
Dynamic range	> 105 dB
Output voltage	100 mV XLR, 100 mV jack
Connections	XLR, bal., 6.3 mm jack, bal.
Power supply	via suppl. PSU
Dimensions	210x42x195 mm
Weight	525 g

TXS-865HT

Order No. 25.5310

Dynamic hand-held UHF PLL transmitter, with REMOSET technology.

- Dynamic microphone cartridge, cardioid characteristic
- 124 selectable channels in 6 channel groups (506-542 MHz)
- Adjustable sensitivity (12 dB to -18 dB)
- Lock function/mute function
- Backlit LCD for indicating channel and battery status
- Switchable transmitting power: 10 mW/50 mW (EIRP)
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied with robust transport case and stand clamp

Model	TXS-865HT
System	dyn./cardioid
Carrier frequency range	506-542 MHz
Audio frequency range	50-16,000 kHz
Frequency stability	±0.005 %
Transmitting power	10 mW/50 mW, switchable
Power supply	2 x batt. AA size, alkaline
Operating time	> 25 h
Dimensions	ø 50 mm x 250 mm
Weight	350 g

Licence required for this system in the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

TXS-865HSE

Order No. 25.5300

UHF PLL pocket transmitter, with REMOSET technology.

- Suitable for the combination with headband microphone or earband microphone with 3-pole mini XLR connector
- 124 selectable channels in 6 channel groups (506-542 MHz)
- Adjustable sensitivity (12 dB to -18 dB)
- Switchable attenuator (0 dB/-6 dB/-20 dB)
- Lock function
- Backlit LCD for indicating channel and battery status
- Transmitting power: 10 mW (EIRP)
- Power supply via 2 x 1.5 V battery AA size (not supplied)

Model	TXS-865HSE
Carrier frequency range	506-542 MHz
Audio frequency range	40-18,000 Hz
Frequency stability	±0.005 %
Transmitting power	10 mW
Connections	3-pole mini XLR
Power supply	2 x batt. AA size, alkaline
Operating time	> 25 h
Dimensions	68x172x21 mm
Weight	77 g

Licence required for this system in the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

TXS-85ANT

Order No. 25.5270

Replacement rod antenna, especially suitable for UHF frequency receiver units TXS-875, TXS-895 and antenna amplifier TXS-870B.

- Perfect reception due to half-wave length tuning (λ/2)
- Folding 90°, with 45° locking
- Flexible, with insulating plastic sheathing
- BNC connection
- Total length: 245 mm

TXS-875

Order No. 25.5320

Multifrequency receiver unit, with UHF PLL technology.

- 193 selectable UHF frequencies (518-542 MHz)
- True diversity system with removable antennas (BNC connection)
- Autoscan
- Pilot tone squelch, noise mute
- Selectable lock mode
- LCD for indicating frequency, antenna A/B, RF receiving level, AF audio level, battery status of the transmitter
- XLR output and 6.3 mm output
- Supplied with PSU
- Supplies operating voltage to TXS-870B

Model	TXS-875
Carrier frequency	518-542 MHz
Audio frequency range	40-18,000 Hz
THD	< 0.6 %
Dynamic range	> 105 dB
Audio signal	900 mV/1 kΩ (jack)
	150 mV/150 Ω (XLR, bal.)
Admiss. ambient temp.	0-40 °C
Power supply	via suppl. PSU
Dimensions	211x40x130mm
Weight	1,100g

TXS-875HT

Order No. 25.5340

Hand-held microphone with integrated multifrequency transmitter, with UHF PLL technology.

- Dynamic microphone cartridge, hypercardiod characteristic
- Diecast aluminium body
- 193 selectable UHF frequencies (518-542 MHz)
- Adjustable sensitivity (0 dB, -10 dB, -20 dB, -30 dB)
- LCD for indicating frequency and battery status
- Transmitting power: 50 mW (EIRP)
- Selectable lock mode
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied with plastic case, microphone holder and 7 coloured caps to be pushed on

Licence required for this system in the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Replacement cartridge available:
MD-872: condenser cartridge with an even more brilliant sound, supercardioid characteristic

Model	TXS-875HT
Carrier frequency	518-542 MHz
Audio frequency range	50-16,000 Hz
Frequency stability	±0.005 %
Operating time	> 30 h
Dimensions	ø 50 mm x 260 mm
Weight	350 g

TXS-875HSE

Order No. 25.5330

Multifrequency pocket transmitter, with UHF PLL technology.

- Suitable for the combination with headband microphone or earband microphone with 3-pole mini XLR connector
- 193 selectable UHF frequencies (518-542 MHz)
- Adjustable sensitivity
- LCD for indicating frequency and battery status
- Transmitting power: 10 mW (EIRP)
- Selectable lock mode
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied in a plastic case

Licence required for this system in the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	TXS-875HSE
Carrier frequency	518-542 MHz
Audio frequency range	40-18,000 Hz
Frequency stability	±0.005 %
Operating time	> 30 h
Dimensions	78x190x34 mm
Weight	160 g

TXS-870B

Order No. 15.0270

Pair of antenna amplifiers, 470-870 MHz, as RF signal amplification for the multifrequency receiver units with matching supply voltage at the antenna terminals.

- Gain: 10 dB
- BNC connections
- Power supply via the receiver units
- Supplied with mounting brackets
- Ideal for mobile applications: mounting facility for microphone stand with 16 mm (5/8") thread

TXS-891

Order No. 25.5380

TXS-895

Order No. 25.5350

2-channel multifrequency receiver units, with UHF PLL technology.

- Switching diversity system with removable antennas (BNC connection)
- 2 channels can be used simultaneously
- 16 selectable UHF frequencies, TXS-891 (863-865 MHz), TXS-895 (518-542 MHz)
- Pilot tone squelch and noise squelch
- Volume and squelch controls for each channel
- Selectable lock mode
- LCD for indicating channel, antenna A/B, RF receiving level and AF audio level
- XLR output for each channel, bal.
- 6.3 mm output for mixed signal
- Supplied operating voltage to TXS-870B
- Supplied with PSU
- 482 mm (19") rack installation possible with supplied mounting brackets

Model	TXS-891	TXS-895
Carrier frequency	863-865 MHz	518-542 MHz
Audio frequency range	40-18,000 Hz	40-18,000 Hz
THD	< 0.6 %	< 0.6 %
Dynamic range	> 105 dB	> 105 dB
Audio signal	500 mV/1 kΩ (jack)	500 mV/1 kΩ (jack)
	150 mV/150 Ω (XLR, bal.)	150 mV/150 Ω (XLR, bal.)
Admiss. ambient temp.	0-40 °C	0-40 °C
Power supply	via suppl. PSU	via suppl. PSU
Dimensions	420x55x230 mm	420x55x230 mm
Weight	2.1 kg	2.1 kg

TXS-891HT

Order No. 25.5400

TXS-895HT

Order No. 25.5370

Hand-held microphones with integrated multifrequency transmitter, with UHF PLL technology.

- Dynamic microphone cartridge, hypercardioid characteristic
- Diecast aluminium body
- 16 selectable UHF channels, TXS-891HT (863-865 MHz), TXS-895HT (518-542 MHz)
- LCD for indicating channel and battery status
- Transmitting power: 10 mW (EIRP)
- Selectable lock mode
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied with plastic case, microphone holder and 7 coloured caps to be pushed on

TXS-891HT: licence-free in the EU.

TXS-895HT: licence required for this system in the EU!

Please read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Replacement cartridge available:
MD-872: condenser cartridge with an even more brilliant sound, supercardioid characteristic.

Model	TXS-891HT	TXS-895HT
Carrier frequency	863-865 MHz	518-542 MHz
Audio frequency range	50-16,000 Hz	50-16,000 Hz
Frequency stability	±0.005 %	±0.005 %
Operating time	> 30 h	> 30 h
Dimensions	ø 50 mm x 260 mm	ø 50 mm x 260 mm
Weight	350 g	350 g

TXS-891HSE

Order No. 25.5390

TXS-895HSE

Order No. 25.5360

Multifrequency pocket transmitters, with UHF PLL technology.

- Suitable for the combination with headband microphone or earband microphone with 3-pole mini XLR connector
- 16 UHF channels to be selected via rotary switch, TXS-891HSE (863-865 MHz), TXS-895HSE (518-542 MHz)
- Transmitting power: 10 mW (EIRP)
- Power supply via 2 x 1.5 V battery AA size (not supplied)
- Supplied with artificial leather bag

TXS-891HSE: licence-free in the EU.

TXS-895HSE: licence required for this system in the EU!

Plese read the notes regarding wireless systems in the section "IMPORTANT INFORMATION"!

Model	TXS-891HSE	TXS-895HSE
Carrier frequency	863-865 MHz	518-542 MHz
Audio frequency range	40-18,000 Hz	40-18,000 Hz
Frequency stability	±0.005 %	±0.005 %
Operating time	> 30 h	> 30 h
Dimensions	68x195x25 mm	68x195x25 mm
Weight	130 g	130 g

DM-3400

Order No. 23.6340

new

Dynamic microphone, for stage, speech and vocals.
- Cardioid characteristic
- Diecast metal body
- Supplied with microphone holder, cable and plastic case

Model	DM-3400
System	dyn./cardioid
Frequency range	50-15,000 Hz
Impedance	600 Ω
Sensitivity	2.5 mV/Pa/1 kHz
Max. SPL	140 dB
Body	diecast metal
Dimensions	ø 45 mm x 180 mm
Weight	610 g
Connection, microphone	XLR, bal.
Connection, cable	XLR, bal.
Cable	5 m, low-noise

DM-1800

Order No. 23.6330

new

Dynamic microphone, for stage, speech and vocals.
- Cardioid characteristic
- Diecast metal body
- Supplied with microphone holder and cable

Model	DM-1800
System	dyn./cardioid
Frequency range	60-14,000 Hz
Impedance	630 Ω
Sensitivity	2.8 mV/Pa/1 kHz
Max. SPL	140 dB
Body	diecast metal
Dimensions	ø 46 mm x 170 mm
Weight	600 g
Connection, microphone	XLR, bal.
Connection, cable	XLR, bal.
Cable	5 m, low-noise

DM-800

Order No. 23.6320

new

Dynamic microphone, for general applications.
- Cardioid characteristic
- Plastic version
- Supplied with microphone holder and cable

Model	DM-800
System	dyn./cardioid
Frequency range	80-12,000 Hz
Impedance	600 Ω
Sensitivity	2.5 mV/Pa/1 kHz
Max. SPL	125 dB
Body	plastic
Dimensions	ø 56 mm x 170 mm
Weight	350 g
Connection, microphone	XLR, bal.
Connection, cable	6.3 mm plug
Cable	3 m, low-noise

MC-1/SW

Order No. 25.5120

new

Microphone carrying case, for one hand-held microphone.
- Additional storage facility for microphone cables and accessories
- Plastic version, padded interior can individually be adapted
- Carrying handle
- Dimensions: 290x80x225 mm
- Weight: 390 g

The C-RAY/8

is a compact active 3-way column PA speaker system with a DSP-controlled 2-channel class D amplifier module and a 4-channel mixer. The system consists of a subwoofer of very high power capability with two 20 cm (8") bass speakers as well as two column modules which are equipped with a total of twelve 7.6 cm (3") full range speakers and two 2.5 cm (1") tweeters. The different connection and configuration of the column modules allows an easy fine tuning with continuously adjustable equalizers via DSP in the inputs. The system provides a powerful sound and is suitable for various applications. The components are attached and connected via a twist-and-lock mechanism and therefore do not require any cables. The four inputs can be mixed and parallel out and mix out are also available.

C-RAY/8

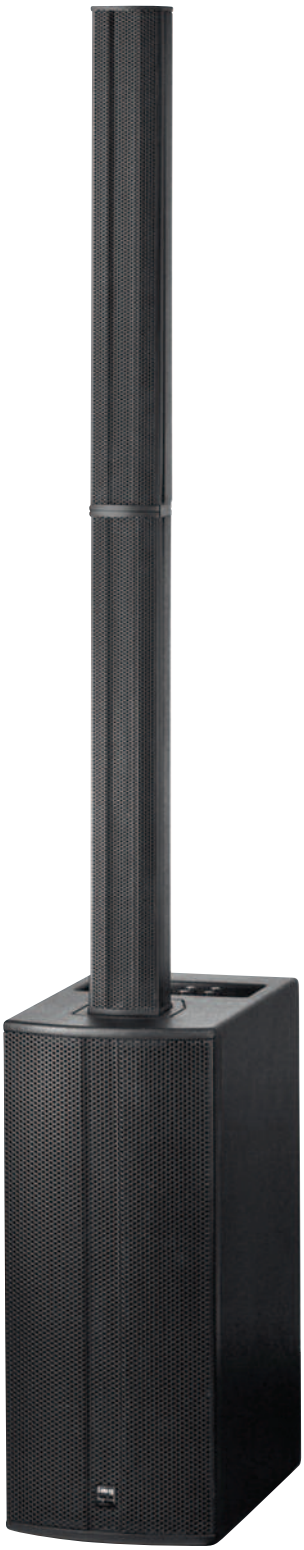
Order No. 25.5630

600 W_{MAX} | 3 Wege Ways | DSP CONTROLLED | new

Active column PA speaker system with DSP, 800 W_{MAX}, 400 W_{RMS}

- Compact full range system with bass-reflex subwoofer and two column modules
- 2 x 20 cm (8") bass speaker, 12 x 7.6 cm (3") full range speaker + 2 x 2.5 cm (1") tweeter in a closed cabinet
- 2-channel class D amplifier system with 2 x 200 W_{RMS}
- DSP-controlled functions for crossover network, equalizer and limiter
- Sound pressure at nominal power: 115 dB, music: 118 dB, peak: 122 dB
- 4-channel mixer
- Continuously adjustable sound characteristics
- Mono selector switch
- Indication of signal, limiter and clip
- Feed-through outputs, rec out and mix output
- High-quality wooden cabinet with protective metal grille
- No cables, components attached via twist-and-lock mechanism

Model	C-RAY/8
Frequency range	50-20,000 Hz
Amplifier power	DSP-controlled,
	400 W_{RMS} (200+200)
	bass: 200 W
	mid-high range: 200 W
Inputs	1 x line in L/R, bal.
	1 x mic, bal.
	1 x comb.
	1 x aux
SPL (1 W/1 m)	95 dB
Max. rated SPL	115 dB at nominal power RMS
Admiss. ambient temp.	0-40 °C
Power supply	230 V~/50 Hz/510 VA
Dimensions (WxHxD)	250x1,730x400 mm
Weight	23 kg
Connections	2 x XLR/6.3 mm comb. (line L/R)
	1 x XLR/6.3 mm comb. (mic)
	1 x XLR/6.3 mm comb. (comb.)
	1 x RCA (aux L/R)
	1 x RCA (rec out L/R)
	1 x 3.5 mm jack (aux L/R)
	1 x XLR, par. out,
	1 x XLR, MIX out
Other features	DSP-controlled limiter



Multi-purpose PA speakers for versatile applications:

the 300 series from IMG Stage Line. They can be used for both fixed installations and mobile applications. Ideally suited for powerful PA applications of good level stability in rooms as well as for rearfill applications and sidefill applications. The very compact and easy-to-transport systems are also very well-suited for mobile applications when combined with suitable subwoofers, e.g. PSUB-12AKA or PSUB-15AKA and as small floor monitors.

PAB-308M/SW

8/2 300 W_{MAX} new

Order No. 25.5100

Universal PA speaker system, 300 W_{MAX}, 150 W_{RMS}, 8 Ω

- Compact 8/2 full range bass-reflex system
- 20 cm (8") coaxial speaker system with 25 mm (1", 44 mm voice coil) horn tweeter
- High-quality cabinet made of birch plywood with metal protective grille
- Multi-purpose positioning and installation options, especially as a floor monitor
- M10 threaded inserts for bracket mounting, M8 threaded insert as a mounting safeguard
- Supplied with mounting bracket and integrated stand sleeve
- NEUTRIK SPEAKON terminal

Model	PAB-308M/SW
System	2-way bass-reflex
Bass speaker	20 cm (8")
Tweeter	25 mm (1", 44 mm voice coil)
horn tweeter	
Power capabilities	
Music power	300 W_{MAX}
Power rating	150 W_{RMS}
General information	
Impedance	8 Ω
Frequency range	80-20,000 Hz
SPL (1 W/1 m)	96 dB
Max. rated SPL	117 dB
Admiss. ambient temp.	0-40 °C
Dimensions	340x303x379 mm
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON par. out
Weight	10 kg

PAK-308M/SW

8/2 DIGITAL DSP CONTROLLED new

Order No. 25.5110

Universal active PA speaker system with DSP, 370 W_{RMS}

- Compact 8/2 full range bass-reflex system
- 20 cm (8") coaxial speaker system with 25 mm (1", 44 mm voice coil) horn tweeter
- DSP-controlled 2-channel amplifier system, bass: class D, treble: analogue
- Max. sound pressure at nominal power: 118 dB, music: 121 dB, peak: 124 dB
- 3 selectable presets: music, flat and low cut (120 Hz)
- Signal and clip indication
- Feed-through outputs and mix output
- High-quality cabinet made of multiplex wood with protective metal grille
- Multi-purpose positioning and installation options, especially as a floor monitor
- M10 threaded inserts for bracket mounting, M8 threaded insert as a mounting safeguard
- Supplied with mounting bracket and integrated stand sleeve

Model	PAK-308M/SW
Frequency range	60-20,000 Hz
Amplifier power	DSP-controlled, 370 W_{RMS} (300+70)
	bass: 300 W_{RMS}
	tweeter: 70 W_{RMS}
Inputs	1 x line/mic (bal.), switchable
	1 x line (bal.)
SPL (1 W/1 m)	97 dB
Max. rated SPL	118 dB at nominal power RMS
Admiss. ambient temp.	0-40 °C
Power supply	230 V~/50 Hz/350 VA
Dimensions (WxHxD)	340x303x379 mm
Weight	10.75 kg
Connections	2 x comb. XLR/6.3 mm (line/mic A, line B)
	2 x XLR, par. out,
	1 x XLR MIX out
Other features	DSP-controlled limiter

The MEGA-215SUB

is a high-performance subwoofer for applications requiring a very powerful yet distinguished bass reproduction. The bass-reflex tube with a large vent operates with minimum friction losses. Furthermore, the arrangement of the speakers results in a sound reproduction with reverse attenuation. Stacking several speaker systems or position them side by side to create a cluster will again improve the performance considerably.

MEGA-215SUB

2x15 4000 W MAX new

Order No. 09.0100

Premium professional PA cabinet subwoofer, 4,000 W_{MAX}, 2,000 W_{RMS}, 4 Ω

- High-power bass-reflex hybrid horn subwoofer system
- Two 38 cm (15", Celestion FTR15-4080FD) high-performance bass speakers
- Cabinet made of high-quality and extensively reinforced birch multiplex
- Durable and high-strength two-component PU coating
- Front grille with acoustic foam
- Transport cover for covering the front of the speaker cabinet
- Stacking foot grooves for horizontal or vertical stacking of several MEGA-215SUB speaker systems to create clusters
- M20 threaded plate inside the recessed grips for spacer tubes, rubber feet
- 2 x NEUTRIK SPEAKON terminal, IN-OUT
- 4 x 100 mm rear castors from BLICKLE

Model	MEGA-215SUB
System	bass-reflex hybrid horn
Bass speaker	2 x 38 cm (15", FTR15-4080FD)
Tweeter	-
Power capabilities	
Music power	4,000 W_{MAX}
Power rating	2,000 W_{RMS}
General information	
Impedance	4 Ω
Frequency range	30-250 Hz
SPL (1 W/1 m)	98 dB (40-250 Hz)
Max. rated SPL	133 dB
Admiss. ambient temp.	0-40 °C
Dimensions	1,050x500x650 mm (w/o castors)
Inputs	1 x NEUTRIK SPEAKON
Outputs	1 x NEUTRIK SPEAKON
Weight	63 kg

MR-1209

Order No. 25.5080

new

Rack for 482 mm (19") units

- Movable mounting frame (12 RS)
- Fixed lower frame part (9 RS)
- 4 castors, 2 of which are provided with a brake
- Supplied with mounting screws

Model	MR-1209
Max. load capacity at	15 kg (movable frame)
centr. weight concentration	20 kg (lower frame part)
Dimensions	65x106x56 cm
Weight	10.8 kg

EBH-45

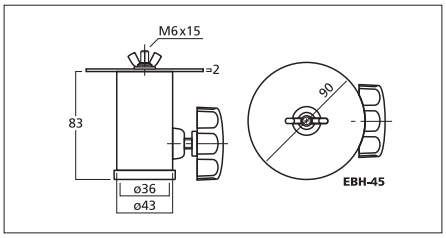
Order No. 11.8055

new

Stand adapter

- For PA column speakers with M6 threaded bushing, e.g. ETS-215TW/WS, ETS-210TW/WS or ETS-215/WS
- Matching stands with standard diameter (ø 35 mm)
- Black lacquered steel version
- M6 x 15 mm threaded bolt with wing nut
- Max. load: 7.5 kg

At PA column speakers with a weight of more than 5 kg, both of the supplied mounting brackets must be used for safety reasons!



AT-7Z

Order No. 11.9914

new

PVC insulating tape (Zumbel Tape), of excellent manufacturing quality. This insulating tape is suitable for flexible operation and can be removed without any residues. To be used in the field of event technology, e.g. for attaching cables to stands.

- Width: 12 mm, 33 m roll, black

- Semi-mat surface
- Flexible and conformable
- Non-corroding, pressure-sensitive adhesive
- Water-resistant, UV-resistant
- Flame retarding, self-extinguishing
- Good resistance to rubbing off
- Easy to tear off and unroll

MAC-40

Order No. 23.0220

new

Adapter screw

- 16 mm (⅝") inside thread
- 6.3 mm (¼") outside thread (camera thread)
- Suitable for portable audio recorders, e.g. H-1 or H-2N

MAC-50

Order No. 23.6350

new

Adapter screw

- 9 mm (⅜") inside thread
- 6.3 mm (¼") outside thread (camera thread)
- Suitable for portable audio recorders, e.g. H-1 or H-2N

MAC-60

Order No. 23.6360

new

Adapter screw

- 9 mm (⅜") inside thread
- 12.7 mm (½") outside thread

DMX-3216

482 mm 19" USB new

Order No. 38.6750

Professional DMX controller, with USB port, for controlling light effect units with DMX512 interface. Convenient operation with versatile programming facilities.

- 512 DMX channels
- USB interface for storing chases onto a USB flash drive
- 16 level buttons, each level with up to 32 DMX channels
- 8 DMX faders, 4 fader pages
- 32 programmable scenes (4 pages with 8 scenes each)
- 16 programmable chases, with up to 750 steps max., all the chases can be run simultaneously
- 1 fader for Fade Time, 1 fader for program speed (Wait Time)
- 2 jog wheels for pan/tilt, can be combined
- Channel inverse function
- 16 pre-programmed movements can be selected
- 3 chase modes: automatic, music-controlled, manual
- Override function
- 1 Tap button for program speed
- Blackout button
- Supports standard MIDI
- Music-controlled via audio input with adjustable sensitivity or built-in microphone
- Backlit LCD (2 x 8 characters)
- Connections: 1 x 3-pole XLR (DMX out), 3 x 5-pole DIN (MIDI in, MIDI out, MIDI thru), 1 x RCA (audio in), 1 x USB A jack
- Power supply via supplied PSU
- Dimensions: 482x134x80 mm, 3 RS
- Weight: 2.4 kg

PML-50RGB

LED USB new

Order No. 03.4810

LED moving message display, 7x80 pixels
With 3-in-1 RGB LEDs of high luminous intensity (red, green, blue) and infrared remote control.

- Fully programmable via supplied infrared remote control or with software via USB interface
- Coloured dot matrix (7x80, red, green, blue, mixed colours: yellow, magenta, cyan, white)
- Extensive editing facilities incl. new programming of messages with letters, numbers, symbols and creating graphical symbols
- 26 storage spaces
- 210 characters max. per storage space
- 16 image storage spaces for bitmap symbols
- Memory is also kept after switching-off and separation from the power supply
- Integrated digital clock with display of time and date
- 3 fonts: regular, bold, condensed
- 16 display effects
- Banner mode: banner message is automatically displayed after switching-on the power supply (ideal for time switch control)
- Programming of sequences
- Smooth display without flickering and jolting
- Adjustable brightness and speed of display
- White aluminium housing
- Power supply via supplied PSU
- Dimensions: 502x67x18 mm
- Weight: 900 g

BEAM-100LED

Order No. 38.0860

LED 100 W LED new

Professional LED beam moving head
100 W LED for extra high luminous efficiency, very powerful directed beam, very narrow beam angle (4°), the light beam can easily be moved with great concentration and precision. This beam is a revolution in the event sector, a real improvement in the range of light effect units.

- 100 W high-power LED
- Highly effective when several devices are used in combination with a hazer
- Controllable via 13 or 7 DMX channels, selectable
- Music-controlled via integrated microphone
- Master/slave mode with automatic run of programs
- Horizontal resolution and vertical resolution: 65,535 steps each (16 bits)
- Rotation angle: 540° horizontal, 270° vertical
- Adjustable limitation of rotation angle for PAN (540°, 360°, 180°) and TILT (270°, 180°, 90°)
- Colour wheel with 14 colours plus 15 mixed colours, rotating colour wheel (rainbow effect)
- Rotating gobo wheel with 17 gobos plus open, variable rotational speed, shaking effects with variable speed
- Strobe effects with variable speed
- Electronic dimmer function (0-100 %)
- Prism effect, electronic adjustment of prism rotation speed via DMX
- 8 automatic and sound-controlled programs each can be activated via DMX
- Blackout-while-moving function can be adjusted via DMX
- Electronic focus adjustment via DMX
- Control panel with LCD for addressing and preadjustments
- Long life with low power consumption
- Power supply: 230 V~/50 Hz/300 VA
- Dimensions: 34x53x25 cm
- Weight: 14 kg

Lighting effects with several units.

BEAM-20LED

Order No. 38.0870

LED 20 W LED new

Compact LED beam moving head
Fast and compact 20 W LED beam with a very high luminous efficiency and very narrow beam angle (4°), ideally suited for indoor events.

- 20 W high-power LED
- Highly effective when several devices are used in combination with a hazer
- Controllable via 12 or 9 DMX channels, selectable
- Music-controlled via integrated microphone
- Master/slave mode with automatic run of programs
- Horizontal resolution and vertical resolution: 65,535 steps each (16 bits)
- Rotation angle: 540° horizontal, 270° vertical
- Adjustable limitation of rotation angle for PAN (540°, 360°, 180°) and TILT (270°, 180°, 90°)
- Colour wheel with 7 colours plus white, rotating colour wheel (rainbow effect)
- Gobo wheel with 9 gobos plus spot, shaking effects with variable speed
- Strobe effects with variable speed
- Electronic dimmer function (0-100 %)
- 8 automatic and sound-controlled programs each can be activated via DMX
- Blackout function can be adjusted via DMX
- Manual focus adjustment
- Control panel with LCD for addressing and preadjustments
- Long life with low power consumption
- Power supply: 230 V~/50 Hz/100 VA
- Dimensions: 22x34x21 cm
- Weight: 6 kg

Lighting effects with several units.

MR-5T

Order No. 25.5600

new

Flight case, for transporting two LED moving head light effect units TWIST-5LED or BEAM-20LED and accessories.

- Multilayer multiplex wood, black, plastic-laminated
- Aluminium profile edges
- Chromium-plated ball protection corners, reinforcing angles
- Butterfly locks, folding recessed handles
- Foam-padded interior
- Dimensions: 560x440x470 mm
- Weight: 7.5 kg

Supplied without units.

WASH-400LED

Order No. 38.6720

LED 10 W LED new

LED moving head washer, for professional applications.
A super powerful spotlight. Due to high-quality workmanship, low-noise cooling fan (40 dBA), very fast movements and highest luminous efficiency, ideally suited for productions in the field of event technology.

- 7 extra bright 4-in-1 CREE RGBW LEDs, 10 W, (beam angle: 12°)
- Controllable via 28, 16, 14, 12, 9 or 1 DMX channels
- Rotation angle: 540° pan, 180° tilt
- Luminous intensity: 55,000 lx
- Resolution: pan/tilt 16/8 bit
- Master/slave mode with automatic run of programs
- Music-controlled via integrated microphone
- Control panel with LCD for addressing and preadjustments
- Power supply: 230 V~/50 Hz/130 VA
- Dimensions: 26x30x16 cm
- Weight: 5.8 kg

WASH-40LED/SW

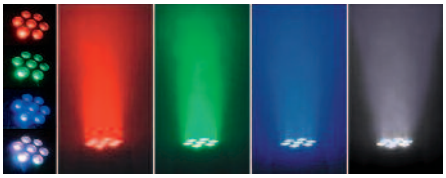
Order No. 38.6730

LED 10 W LED new

WASH-40LED/WS

Order No. 38.6740

LED 10 W LED new



Mini LED moving head washers
Strong performance with highest luminous efficiency, small dimensions and low weight, ideally suited for party applications. Housing available in black (WASH-40LED/SW) or white (WASH-40LED/WS).

- 7 very bright 4-in-1 RGBW LEDs, 10 W, (beam angle: 10°)
- Easy to use
- Controllable via 13 or 8 DMX channels
- Music-controlled via integrated microphone
- Master/slave mode with automatic run of programs
- Rotation angle: 540° pan, 180° tilt
- Pan/tilt resolution: 16/8 bit
- Illumination intensity: 8,100 lx
- Control panel with LED display for addressing and preadjustments
- Fan cooling
- Power supply: 230 V~/50 Hz/70 VA
- Dimensions: 18x23x18 cm
- Weight: 3 kg

PARC-64/RGB

Order No. 38.6760

LED COB 100 W LED new

LED spotlight, with the latest chip-on-board (COB) technology for a high energy effiency and a homogeneous light distribution.
3 primary colours (red, green and blue), with colour mixer, dimmer function and stroboscope function via DMX interface.

- High-power RGB COB LED, 100 W (beam angle: 60°), for highest luminous efficiency
- Controllable via 10, 5, 4 or 3 DMX channels
- Master/slave mode with automatic run of programs, 10 show programs
- Music-controlled via integrated microphone
- 10 programs with 30 scenes each can be programmed in stand-alone mode
- Control panel with LED display for addressing and preadjustments
- Overtemperature protection
- Processor-controlled colour change
- Barn doors PARC-64B available at option
- Compact black aluminium housing
- Also suitable as a standing spotlight due to 2 movable mounting brackets
- 1.2 m connection cable with earthed plug
- Power supply: 230 V~/50 Hz/170 VA
- Dimensions: ø 220 mm x 260 mm
- Weight: 2.9 kg

PARC-64/WS

Order No. 38.6770

LED COB 100 W LED new

LED spotlight, with the latest chip-on-board (COB) technology for a high energy efficiency and a homogeneous light distribution.
Daylight white, with dimmer function and stroboscope function via DMX interface.

- High-power white COB LED, 100 W (beam angle: 60°), for highest luminous efficiency
- Colour temperature: 5,600 K
- Controllable via 3 DMX channels
- Control panel with LED display for addressing and preadjustments
- Overtemperature protection
- Supplied with colour filter frame
- Barn doors PARC-64B available at option
- Compact black aluminium housing
- Also suitable as a standing spotlight due to 2 movable mounting brackets
- 1.2 m connection cable with earthed plug
- Power supply: 230 V~/50 Hz/160 VA
- Dimensions: ø 220 mm x 260 mm
- Weight: 3.2 kg

PARC-64B

Order No. 38.6780

new

Barn doors

- Matching the LED spotlights PARC-64/RGB and PARC-64/WS
- 4 adjustable flaps for limiting the light cone
- Black lacquered metal version
- Weight: 880 g

ODW-2410RGBW

Order No. 38.6790

IP66 LED 8 W LED new

LED floodlight for outdoor applications, IP66,
3 primary colours (red, green and blue) plus white, with colour mixer/dimmer and stroboscope function via DMX interface.

The high-power LED floodlight is the ideal projector for an open-air stage, a theatre, a club or for impressive architectural lighting.

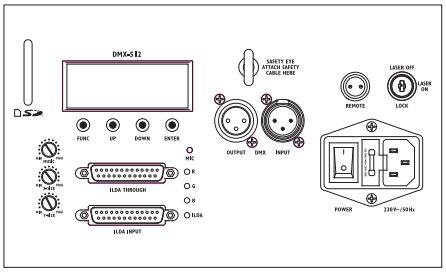
- 24 extra bright 4-in-1 RGBW LEDs, 8 W each (beam angle: 45°), for highest luminous efficiency
- Controllable via 11, 6, 5, 4 or 3 DMX channels, selectable
- Master/slave mode with automatic run of programs
- Control panel with LED display for addressing and preadjustments, with password protection
- Processor-controlled colour change
- Temperature protection function
- Fanless cooling concept
- Long life with low power consumption and low heat generation
- Robust, square metal housing with lockable retainer for floodlight, tiltable: 90°
- With fitted DMX input and output cables as well as mains connection and feed-through cables for cascading several ODW-2410RGBW
- Matching extension cables for DMX output ODP-34DMX (2 m), ODP-34DMX/10 (10 m) and for mains connection ODP-34AC (2 m), ODP-34AC/10 (10 m) are available at option
- Power supply: 230 V~/50 Hz/250 VA
- Dimensions: 430x300x220 mm
- Weight: 11 kg

LSX-1300SRGB

Order No. 38.6710

Show laser, able to display full graphics, for professional applications. Impresses by a compact design, high-speed scanner motors (30 kpps), high-power laser diodes and ILDA control.

- 3 laser diodes: red (200 mW), green (300 mW) and blue (800 mW)
- Scanner speed: 30 kpps
- Control via ILDA, DMX, SD card or SOUND
- In stand-alone mode, ILDA programs can be activated via SD card
- Numerous ILDA programs are preprogrammed on the SD card
- 81 graphics can be activated via DMX
- Music-controlled via integrated microphone
- Emergency stop jack for an external emergency stop switch
- Control panel with dot matrix LCD for adressing, selection and presettings
- Power supply: 230 V~/50 Hz/85 VA
- Dimensions: 345x162x260 mm
- Weight: 8 kg
- Supplied with 2 GB SD card
- ILDA connection cable is available at option



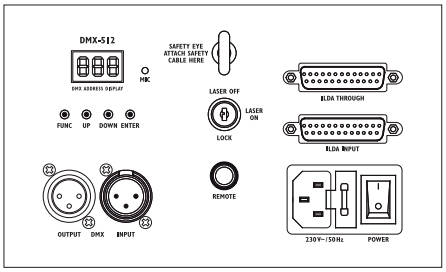
Class 4 Lasers
The accessible laser radiation is very hazardous to the human eye and hazardous to the skin. Diffuse scattered radiation may also be hazardous. The laser beam may represent a fire and explosion hazard. When using a class 4 laser, the operator has to appoint a laser safety officer in writing (BGV B2 = German Accident Prevention & Insurance Association regulation B2)! Laser safety officers must have the requisite qualifications!
An approval is required for class 4 lasers!

LSX-1002SRGB

Order No. 38.6700

Show laser, able to display full graphics,
impresses by high-power laser diodes and ILDA control.

- 3 laser diodes red: red (200 mW), green (150 mW) and blue (500 mW)
- Scanner speed: 20 kpps
- Control via ILDA, DMX or sound
- 80 graphics can be activated via DMX
- Music-controlled via inegrated microphone
- Emergency stop jack for an external emergency stop switch
- Control panel with dot matrix LCD for addressing and preadjustments
- Power supply: 230 V~/50 Hz/45 VA
- Dimensions: 377x112x285 mm
- Weight: 6 kg
- ILDA connection cable is available at option



CU-100WIFI

Order No. 38.6800

APP new

Wireless LED controller, for controlling wireless LED lamps CUB-1RGB and CUB-2CTW as well as for additionally operating the controller CU-100RGB using app (milight) for Android or iOS devices via WLAN.

- Transmission frequency: 2.4 GHz
- Range of functions depends on the lamps to be controlled
- Power supply: 5 V⎓/500 mA via supplied USB cable
- Dimensions: 90x15x66 mm
- Weight: 45 g

Licence-free in the EU.

CU-1RGB

Order No. 38.6810

LED 6W≙40W new

RGB LED lamp, 6 W, E27, with wireless remote control
Set consists of an RGB LED lamp (CUB-1RGB) with E27 screw base and a 2.4 GHz wireless remote control.

- 3 separate control channels, thus mixed colours with red, green and blue possible (640,000 colours)
- Compatible with wireless LED controller CU-100WIFI
- Ergonomic, user-friendly wireless remote control:
  - Colour selection via touch-sensitive colour wheel
  - Control buttons for brightness, speed and program
  - Push-button on/off
  - Power supply of the remote control via 2 x battery AAA size (not supplied)
  - Operating range: 20 m max.
- Transmission/carrier frequency: 2.4 GHz
- Automatic run of 20 programs
- Life of LED: 50,000 h
- Power supply of LED: 230 V~/50 Hz/7.5 W
- For further specifications of the LED, please refer to CUB-1RGB

Licence-free in the EU.

CUB-1RGB

Order No. 38.6820

LED 6W≙40W new

RGB LED lamp, 6 W, E27

- Controllable via the wireless remote control of CU-1RGB or via CU-100WIFI
- 3 separate control channels, thus mixed colours with red, green and blue possible (640,000 colours)
- Carrier frequency: 2.4 GHz
- Automatic run of 20 progams
- Life: 50,000 h
- Power supply: 230 V~/50 Hz/7.5 W
- E27 screw base

CU-2CTW

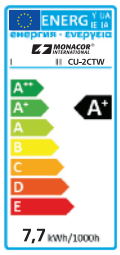
Order No. 38.6830

LED 6W≙40W new

Set of 2 LED lamps, 6 W, E27, with wireless remote control
Set consists of 2 white LED lamps (CUB-2CTW) with E27 screw base and a 2.4 GHz wireless remote control.

- Variable colour temperature adjustment for LED lamp, dimmable
- Compatible with wireless LED controller CU-100WIFI
- Ergonomic, user-friendly wireless remote control:
  - Colour temperature: 3,000-6,500 K (warm white to cool white), continuously adjustable
  - Brightness can continuously be adjusted via rocker switches
  - Push-buttons on/off: 1 x central, 4 x individual
  - Grouping of several LED lamps possible by using buttons for programming
  - Power supply of remote control via 2 x battery AAA size (not supplied)
  - Operating range: 20 m max.
- Transmission/carrier frequency: 2.4 GHz
- Life of LED: 50,000 h
- Power supply: 230 V~/50 Hz/7.5 W
- For further specifications of the LED, please refer to CUB-2CTW

Licence-free in the EU.



CUB-2CTW

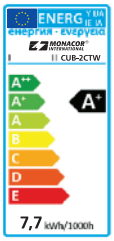
Order No. 38.6840

LED 6W≙40W new

LED lamp, 6 W, E27

- Controllable via wireless remote control of CU-2CTW or via CU-100WIFI
- Colour temperature: 3,000-6,500 K (warm white to cool white)
- Brightness can continuously be adjusted via rocker switches
- Carrier frequency: 2.4 GHz
- Life: 50,000 h
- Power supply: 230 V~/50 Hz/7.5 W
- E27 screw base

Model	CUB-2CTW
Energy efficiency class	A
Luminous flux	560 lm
Rated life	50,000 h
Colour temperature	3,000-6,500 K
Switching cycles	12,000
Response time	< 0.5 s
Dimmable	yes
Dimensions	ø 60 mm x 122 mm
Radiation angle	120°
Base	E27
Power capability	6 W
Voltage	230 V~
Energy consumption in	8.25 kWh/1,000 h
1,000 hours of operation	
Luminous efficiency	70 lm/W
Mercury content	0.0 mg
Measured value of	7.5 W
power consumption	
Measured life	50,000 h
Measured luminous flux	560 lm
Lamp current at the end	70 %
of rated life	
Power factor	0.96
Current consumption	35-65 mA



CU-100RGB

Order No. 38.6660

new

3-channel wireless LED controller, for 12 V or 24 V LED products, with wireless remote control.

- For controlling red, green and blue LEDs
- 3 separate control channels, thus mixed colours possible (with RGB LEDs only)
- Ergonomic, user-friendly wireless remote control:
  - Colour selection via touch-sensitive colour wheel
  - Control buttons for brightness, speed and program
  - Push-button on/off
  - Power supply via 2 x battery AAA size (not supplied)
- Transmission frequency: 2.4 GHz
- Automatic run of 20 programs
- Screw terminals for connecting the LED strips
- Connection of the power supply via screw terminals
- Power supply: 12 V⎓/9 A or 24 V⎓/9 A
- Maximum load: 3 A per channel
- Dimensions: 85x45x23 mm
- Weight: 46 g

Licence-free in the EU.

LEDT-152/NWS
Order No. 38.3170

LEDT-152/WS
Order No. 38.3180

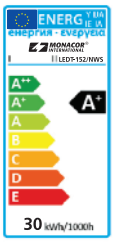
LED tubes, T8, 30 W, 150 cm, with the latest chip technology for a higher luminous intensity (3,060 lm) as well as a high and homogeneous illumination.

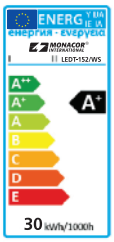
- Long life with low power consumption and low heat generation
- High energy-saving potential compared to standard fluorescent tubes
- As a replacement for standard 58 W fluorescent tubes
- Instant start tube
- Eco-friendly and health-friendly (energy-saving, mercury-free, no UV radiation or infrared radiation, no flickering)
- Fitted with 360 white SMD LEDs (type 2835)

- Available in daylight (WS) and neutral white (NWS)
- Matt-finished tube housing
- Rotating end caps
- Safety circuit (no voltage is fed through the tube)
- Supplied with starter bridge

The existing starter must be replaced with the supplied starter bridge.

Not suitable for lights with electronic ballast without starter.





LEDT-122/NWS
Order No. 38.3150

LEDT-122/WS
Order No. 38.3160

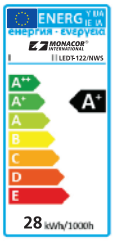
LED tubes, T8, 28 W, 120 cm, with the latest chip technology for a higher luminous intensity (2,625 lm) as well as a high and homogeneous illumination.

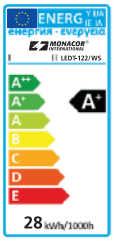
- Long life with low power consumption and low heat generation
- Energy-saving potential compared to standard fluorescent tubes
- As a replacement for standard 36 W fluorescent tubes
- Instant start tube
- Eco-friendly and health-friendly (energy-saving, mercury-free, no UV radiation or infrared radiation, no flickering)
- Fitted with 288 white SMD LEDs (type 2835)

- Available in daylight (WS) and neutral white (NWS)
- Matt-finished tube housing
- Rotating end caps
- Safety circuit (no voltage is fed through the tube)
- Supplied with starter bridge

The existing starter must be replaced with the supplied starter bridge.

Not suitable for lights with electronic ballast without starter.





Model	LEDT-152/NWS	LEDT-152/WS	LEDT-122/NWS	LEDT-122/WS
Energy efficiency class	A+	A+	A+	A+
Luminous flux	3,060 lm	3,060 lm	2,625 lm	2,625 lm
Rated life	50,000 h	50,000 h	50,000 h	50,000 h
Colour temperature	4,200 K ±200 K	5,500 K ±200 K	4,200 K ±200 K	5,500 K ±200 K
Switching cycles	15,000	15,000	15,000	15,000
Response time	< 0.5 s	< 0.5 s	< 0.5 s	< 0.5 s
Dimmable	no	no	no	no
Dimensions	ø 28 mm x 1,498 mm	ø 28 mm x 1,498 mm	ø 28 mm x 1,198 mm	ø 28 mm x 1,198 mm
Radiation angle	120°	120°	120°	120°
Equivalent to	58 W	58 W	36 W	36 W
Base	G13	G13	G13	G13
Power capability	30 W	30 W	28 W	28 W
Voltage	230 V~	230 V~	230 V~	230 V~
Energy consumption in	30 kWh/1,000 h	30 kWh/1,000 h	30 kWh/1,000 h	30 kWh/1,000 h
1,000 hours of operation				
Luminous efficiency	105 lm/W	105 lm/W	95 lm/W	95 lm/W
Mercury content	0.0 mg	0.0 mg	0.0 mg	0.0 mg
Luminous intensity	1,620 cd	1,620 cd	1,296 cd	1,296 cd
Measured value of	30 W	30 W	28 W	28 W
power consumption				
Colour rendering index (Ra)	> 80	> 80	> 80	> 80
Measured life	50,000 h	50,000 h	50,000 h	50,000 h
Measured luminous flux	3,060 lm	3,060 lm	2,625 lm	2,625 lm
Lamp current at the end	70 %	70 %	70 %	70 %
of rated life				
Power factor	> 0.95	> 0.95	> 0.95	> 0.95
Current consumption	140 mA	140 mA	130 mA	130 mA

LEDT-120E/WS
Order No. 38.3200

LEDT-120E/NWS
Order No. 38.3190

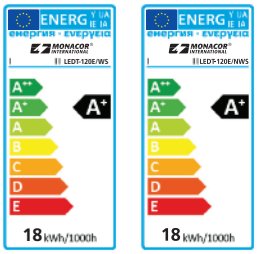
LED tubes "Eco", T8, 18 W, 120 cm, with the latest chip technology for a higher luminous intensity (1,730 lm), a high and homogeneous illumination as well as a high energy-saving potential due to energy-efficient LEDs.

- Long life with low power consumption and low heat generation
- As a replacement for standard 36 W fluorescent tubes
- Instant start tube
- Eco-friendly and health-friendly (energy-saving, mercury-free, no UV radiation or infrared radiation, no flickering)
- Fitted with 168 white SMD LEDs (type 2835)
- Available in daylight (WS) and neutral white (NWS)

- Matt-finished tube housing
- Rotating end caps
- Safety circuit (no voltage is fed through the tube)
- Supplied with starter bridge

The existing starter must be replaced with the supplied starter bridge.

Not suitable for lights with electronic ballast without starter.



LEDT-150E/WS
Order No. 38.3220

LEDT-150E/NWS
Order No. 38.3210

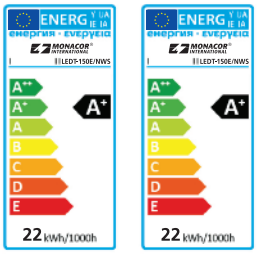
LED tubes "Eco", T8, 22 W, 150 cm, with the latest chip technology for a higher luminous intensity (1,730 lm), a high and homogeneous illumination as well as a high energy-saving potential due to energy-efficient LEDs.

- Long life with low power consumption and low heat generation
- As a replacement for standard 58 W fluorescent tubes
- Instant start tube
- Eco-friendly and health-friendly (energy-saving, mercury-free, no UV radiation or infrared radiation, no flickering)
- Fitted with 204 white SMD LEDs (type 2835)
- Available in daylight (WS) and neutral white (NWS)
- Matt-finished tube housing

- Rotating end caps
- Safety circuit (no voltage is fed through the tube)
- Supplied with starter bridge

The existing starter must be replaced with the supplied starter bridge.

Not suitable for lights with electronic ballast without starter.



Model	LEDT-120E/WS	LEDT-120E/NWS	LEDT-150E/WS	LEDT-150E/NWS
Energy efficiency class	A+	A+	A+	A+
Luminous flux	1,730 lm	1,730 lm	2,160 lm	2,160 lm
Rated life	50,000 h	50,000 h	50,000 h	50,000 h
Colour temperature	5,500 K ± 200 K	4,200 K ± 200 K	5,500 K ± 200 K	4,200 K ± 200 K
Switching cycles	15,000	15,000	15,000	15,000
Response time	≤ 0.5 s	≤ 0.5 s	≤ 0.5 s	≤ 0.5 s
Dimmable	no	no	no	no
Dimensions	ø 28 mm x 1,198 mm	ø 28 mm x 1,198 mm	ø 28 mm x 1,498 mm	ø 28 mm x 1,498 mm
Radiation angle	120°	120°	120°	120°
Equivalent to	36 W	36 W	58 W	58 W
Base	G13	G13	G13	G13
Power capability	18 W	18 W	22 W	22 W
Voltage	230 V~	230 V~	230 V~	230 V~
Energy consumption in	18 kWh/1,000 h	18 kWh/1,000 h	22 kWh/1,000 h	22 kWh/1,000 h
1,000 hours of operation				
Luminous efficiency	95 lm/W	95 lm/W	100 lm/W	100 lm/W
Mercury content	0.0 mg	0.0 mg	0.0 mg	0.0 mg
Luminous intensity	550 cd	550 cd	690 cd	690 cd
Colour consistency	> 6	> 6	> 6	> 6
Measured value of	18 W	18 W	22 W	22 W
power consumption				
Colour rendering index (Ra)	> 80	> 80	> 80	> 80
Measured life	50,000 h	50,000 h	50,000 h	50,000 h
Measured luminous flux	1,730 lm	1,730 lm	2,160 lm	2,160 lm
Lamp current at the end	70 %	70 %	70 %	70 %
of rated life				
Power factor	> 0.95	> 0.95	> 0,95	> 0.95
Current consumption	80 mA	80 mA	100 mA	100 mA

LEDP-600D/NWS

Order No. 05.0164

LEDP-625D/NWS

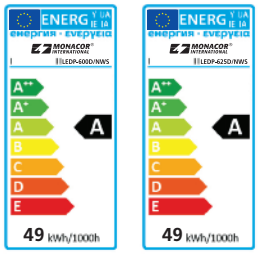
Order No. 05.0165

LED panels, 4-44 W, dimmable, for the installation into suspended ceilings or for suspended installation.

- High energy-saving potential compared to standard fluorescent tubes
- Long life with low power consumption and low heat generation
- Eco-friendly and health-friendly (energy-saving, mercury-free, no UV radiation or infrared radiation, no flickering)
- Homogeneous light distribution, glare-free
- 168 white SMD LEDs
- Super slimline (10 mm) with white aluminium frame
- Power supply via supplied dimmable PSU
- Safety rope set LEDP-4HOLD for suspended installation is available at option

LEDP-600D/NWS: 595x595 mm
LEDP-625D/NWS: 622x622 mm

Not suitable for the application in damp locations.



LEDP-4HOLD

Order No. 05.0166

Suspension rope set

- For suspended installation of LED panels LEDP-600D/NWS or LEDP-625D/NWS
- 4 mounting supports, 4 ropes, 4 wire rope fasteners
- Adjustable angle and length

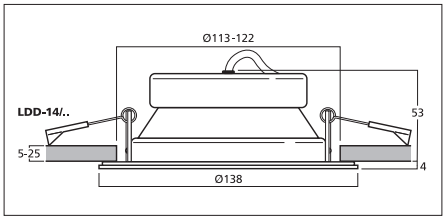
Supplied without LED panels.

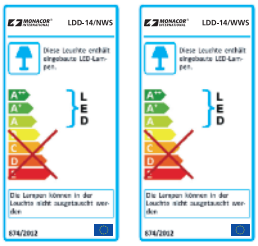
Model	LEDP-600D/NWS	LEDP-625D/NWS
Energy efficiency class	A	A
Luminous flux	3,000 lm	3,000 lm
Rated life	30,000 h	30,000 h
Colour temperature	4,000 K	4,000 K
Switching cycles	15,000	15,000
Response time	≤ 0.5 s	≤ 0.5 s
Dimmable	yes	yes
Dimensions	595x10x595 mm	622x10x622 mm
Radiation angle	120°	120°
Equivalent to	-	-
Base	-	-
Power capability	4-44 W	4-44 W
Voltage	230 V~/50 Hz	230 V~/50 Hz
Energy consumption in	49 kWh/1,000 h	49 kWh/1,000 h
1,000 hours of operation		
Luminous efficiency	70 lm/W	70 lm/W
Mercury content	0.0 mg	0.0 mg
Luminous intensity	1,048 cd	1,048 cd
Colour consistency	> 6	> 6
Measured value of	44 W	44 W
power consumption		
Colour rendering index (Ra)	> 80	> 80
Measured life	30,000 h	30,000 h
Measured luminous flux	3,000 lm	3,000 lm
Spectral power distribution	-	-
Lamp current at the end	2,100 lm	2,100 lm
of rated life		
Power factor	0.95	0.95
Current consumption	600 mA	600 mA

LDD-14/NWS
Order No. 02.1080

LDD-14/WWS
Order No. 02.1090

LED downlights, 14 W
- Available in neutral white (NWS) or warm white (WWS)
- Beam angle: 120°
- White aluminium housing with front plastic protective cover
- For installations in ceiling cutouts: ø 113-122 mm
- For a ceiling thickness from 5 to 25 mm
- Quick mounting facility
- Easy installation due to supplied LED switch-mode PSU, connection via 2-pole pin connector
- Not dimmable

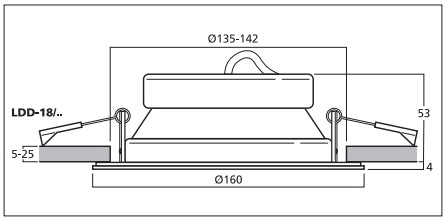


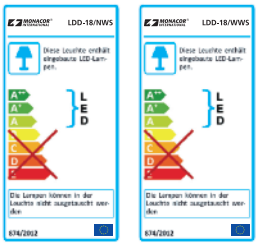


LDD-18/NWS
Order No. 02.1100

LDD-18/WWS
Order No. 02.1110

LED downlights, 18 W
- Available in neutral white (NWS) or warm white (WWS)
- Beam angle: 120°
- White aluminium housing with front plastic protective cover
- For installations in ceiling cutouts: ø 135-142 mm
- For a ceiling thickness from 5 to 25 mm
- Quick mounting facility
- Easy installation due to supplied LED switch-mode PSU, connection via 2-pole pin connector
- Not dimmable





Model	LDD-14/NWS	LDD-14/WWS	LDD-18/NWS	LDD-18/WWS
Energy efficiency class	A+	A+	A+	A+
Luminous flux	1,090 lm	950 lm	1,440 lm	1,260 lm
Rated life	40,000 h	40,000 h	40,000 h	40,000 h
Colour temperature	4,000 K	3,000 K	4,000 K	3,000 K
Dimmable	no	no	no	no
Dimensions	ø 138 mm x 57 mm	ø 138 mm x 57 mm	ø 160 mm x 57 mm	ø 160 mm x 57 mm
Radiation angle	120°	120°	120°	120°
Power capability	14 W	14 W	18 W	18 W
Voltage	15-20 V⎓	15-20 V⎓	21-28 V⎓	21-28 V⎓
Energy consumption in	14 kWh1,000 h	14 kWh1,000 h	18 kWh1,000 h	18 kWh1,000 h
1,000 hours of operation				
Luminous efficiency	78 lm/W	68 lm/W	80 lm/W	70 lm/W
Mercury content	0.0 mg	0.0 mg	0.0 mg	0.0 mg
Luminous intensity	-	-	-	-
Colour consistency	-	-	-	-
Measured value of	14 W	14 W	18 W	18 W
power consumption				
Measured life	40,000 h	40,000 h	40,000 h	40,000 h
Measured luminous flux	1,090 lm	950 lm	1,440 lm	1,260 lm
Current consumption	700 mA	700 mA	700 mA	700 mA

LDB-274G/WWS

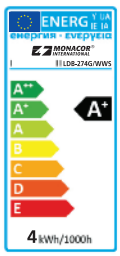
LED 4W≙35W new

Order No. 02.1180

LED lamp, E27, 230 V~/4 W, looks like a real incandescent lamp.

- As an energy-saving replacement for standard incandescent lamps, e.g. in bars, restaurants and hotels
- Real glass bulb, clear
- Beam angle: 360°
- Not dimmable

Model	LDB-274G/WWS
Energy efficiency class	A+
Luminous flux	320 lm
Rated life	15,000 h
Colour temperature	3,000 K
Switching cycles	15,000
Response time	60 % in ≤ 05 s,
	100 % in ≤ 1.0 s
Dimmable	no
Dimensions	ø 55 mm x 105 mm
Radiation angle	300°
Equivalent to	35 W
Base	E27
Power capability	4 W
Voltage	230 V~
Energy consumption in	4 kWh/1,000 h
1,000 hours of operation	
Luminous efficiency	80 lm/W
Mercury content	0.0 mg
Colour consistency	< 0.6
Measured value of	4 W
power consumption	
Colour rendering index (Ra)	> 80
Measured life	15,000 h
Measured luminous flux	320 lm
Lamp current at the end	80 %
of rated life	
Power factor	0.7
Current consumption	24 mA



LDC-142G/WWS

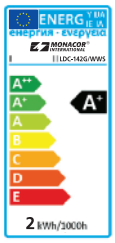
LED 3W≙25W new

Order No. 02.1190

LED candle lamp, E14, 230 V~/2 W, looks like a real incandescent lamp.

- As an energy-saving replacement for standard incandescent lamps, e.g. with chandeliers
- Real glass bulb, clear
- Beam angle: 300°
- Not dimmable

Model	LDC-142G/WWS
Energy efficiency class	A+
Luminous flux	160 lm
Rated life	30,000 h
Colour temperature	3,000 K
Switching cycles	15,000
Response time	60 % in ≤ 05 s,
	100 % in ≤ 1.0 s
Dimmable	no
Dimensions	ø 35 mm x 112 mm
Radiation angle	300°
Equivalent to	15 W
Base	E14
Power capability	2 W
Voltage	230 V~
Energy consumption in	2 kWh/1,000 h
1,000 hours of operation	
Luminous efficiency	80 lm/W
Mercury content	0.0 mg
Luminous intensity	30 cd
Colour consistency	< 0.6
Measured value of	2 W
power consumption	
Colour rendering index (Ra)	> 80
Measured life	30,000 h
Measured luminous flux	160 lm
Lamp current at the end	80 %
of rated life	
Power factor	0.7
Current consumption	13 mA



LDB-277/WWS

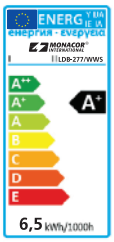
Order No. 02.1070

LED new 6.5W≙40W

LED lamp, E27, 230 V~/6.5 W, beam angle: 260° and the latest LED technology.

- As an energy-saving replacement for standard incandescent lamps
- Due to the particularly wide beam angle of 260°, also suitable for horizontal installation, e.g. into ceiling lights
- Not dimmable

Model	LDB-277/WWS
Energy efficiency class	A+
Luminous flux	470 lm
Rated life	30,000 h
Colour temperature	2,700 K
Switching cycles	15,000
Response time	60 % in ≤ 0.5 s,
	100 % in ≤ 1.0 s
Dimmable	no
Dimensions	ø 60 mm x 108 mm
Radiation angle	260°
Equivalent to	40 W
Base	E27
Power capability	6.5 W
Voltage	230 V~
Energy consumption in	6.5 kWh/1,000 h
1,000 hours of operation	
Luminous efficiency	75 lm/W
Mercury content	0.0 mg
Colour consistency	< 0.6
Measured value of	6.5 W
power consumption	
Colour rendering index (Ra)	> 80
Measured life	30,000 h
Measured luminous flux	470 lm
Lamp current at the end	70 %
of rated life	
Power factor	0.65
Current consumption	44 mA



LDC-146D/WWS

Order No. 02.1200

LED 6W≙40W new

LED candle lamp, E14, 230 V~/5.5 W, with the latest LED technology.

- As an energy-saving replacement for standard incandescent lamps
- Dimmable: 10-100 %

Model	LDC-146D/WWS
Energy efficiency class	A+
Luminous flux	470 lm
Rated life	30,000 h
Colour temperature	3,000 K
Switching cycles	15,000
Response time	60 % in ≤ 05 s,
	100 % in ≤ 1.0 s
Dimmable	yes, 10-100 %
Dimensions	ø 37 mm x 103 mm
Radiation angle	200°
Equivalent to	40 W
Base	E14
Power capability	5.5 W
Voltage	230 V~
Energy consumption in	5.5 kWh/1,000 h
1,000 hours of operation	
Luminous efficiency	85 lm/W
Mercury content	0.0 mg
Colour consistency	< 0.6
Measured value of	5.5 W
power consumption	
Colour rendering index (Ra)	> 80
Measured life	30,000 h
Measured luminous flux	470 lm
Lamp current at the end	80 %
of rated life	
Power factor	0.95
Current consumption	25 mA

LDR2-105/WS

Order No. 02.1120

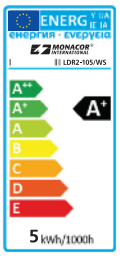
LDR2-105/WWS

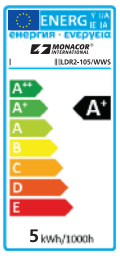
Order No. 02.1130

Extra bright LED reflector lamps, GU10, 230 V~/5 W, with the latest chip-on-board (COB) technology for a high energy efficiency and a homogeneous light distribution.

- Available in white (WS) or warm white (WWS)
- Beam angle: 38°
- High luminous efficiency, thus perfectly suitable as a replacement for standard halogen reflector lamps, MR16
- For downlight applications
- Plastic housing
- Not dimmable

Model	LDR2-105/WS	LDR2-105/WWS
Energy efficiency class	A+	A+
Luminous flux	380 lm	360 lm
Rated life	30,000 h	30,000 h
Colour temperature	6,000 K	3,000 K
Switching cycles	> 15,000	> 15,000
Response time	60 % in ≤ 0.5 s,	60 % in ≤ 0.5 s,
	100 % in ≤ 1.0 s	100 % in ≤ 1.0 s
Dimmable	no	no
Dimensions	ø 50 mm x 54 mm	ø 50 mm x 54 mm
Radiation angle	38°	38°
Equivalent to	50 W	50 W
Base	GU10	GU10
Power capability	5 W	5 W
Voltage	230 V~	230 V~
Energy consumption in	5 kWh/1,000 h	5 kWh/1,000 h
1,000 hours of operation		
Luminous efficiency	70 lm/W	65 lm/W
Mercury content	0.0 mg	0.0 mg
Measured value of	5 W	5 W
power consumption		
Colour rendering index (Ra)	> 80	> 80
Measured life	30,000 h	30,000 h
Measured luminous flux	345 lm	325 lm
Lamp current at the end	80 %	80 %
of rated life		
Power factor	0.5	0.5
Current consumption	39 mA	39 mA





LDR2-105D/WS

Order No. 02.1140

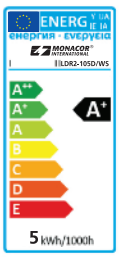
LDR2-105D/WWS

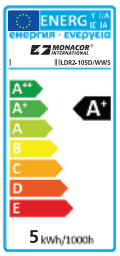
Order No. 02.1150

Extra bright LED reflector lamps, GU10, 230 V~/5 W, with the latest chip-on-board (COB) technology for a high energy efficiency and a homogeneous light distribution.

- Available in white (WS) or warm white (WWS)
- Beam angle: 38°
- High luminous efficiency, thus perfectly suitable as a replacement for standard halogen reflector lamps, MR16
- For downlight applications
- Plastic housing
- Dimmable: 10-100 %

Model	LDR2-105D/WS	LDR2-105D/WWS
Energy efficiency class	A+	A+
Luminous flux	380 lm	360 lm
Rated life	30,000 h	30,000 h
Colour temperature	6,000 K	3,000 K
Switching cycles	> 15,000	> 15,000
Response time	60 % in ≤ 0.5 s,	60 % in ≤ 0.5 s,
	100 % in ≤ 1.0 s	100 % in ≤ 1.0 s
Dimmable	yes, 10-100 %	yes, 10-100 %
Dimensions	ø 50 mm x 59 mm	ø 50 mm x 59 mm
Radiation angle	38°	38°
Equivalent to	50 W	50 W
Base	GU10	GU10
Power capability	5 W	5 W
Voltage	230 V~	230 V~
Energy consumption in	5 kWh/1,000 h	5 kWh/1,000 h
1,000 hours of operation		
Luminous efficiency	70 lm/W	64 lm/W
Mercury content	0.0 mg	0.0 mg
Measured value of	5 W	5 W
power consumption		
Colour rendering index (Ra)	> 80	> 80
Measured life	30,000 h	30,000 h
Measured luminous flux	345 lm	320 lm
Lamp current at the end	80 %	80 %
of rated life		
Power factor	0.5	0.5
Current consumption	39 mA	39 mA





LDR2-165/WS

Order No. 02.1160

new

LDR2-165/WWS

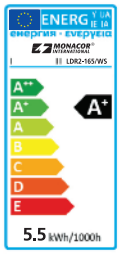
Order No. 02.1170

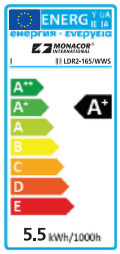
new

LED reflector lamps, GU5.3, 12 V⎓/5 W, with the latest chip-on-board (COB) technology for a high energy efficiency and a homogeneous light distribution.

- Available in white (WS) or warm white (WWS)
- Beam angle: 38°
- High luminous efficiency, thus perfectly suitable as a replacement for standard halogen reflector lamps, MR16
- For downlight applications
- Plastic housing
- Not dimmable

Model	LDR2-165/WS	LDR2-165/WWS
Energy efficiency class	A+	A+
Luminous flux	360 lm	340 lm
Rated life	30,000 h	30,000 h
Colour temperature	4,100 K	3,000 K
Switching cycles	15,000	15,000
Response time	60 % in ≤ 0.5 s,	60 % in ≤ 0.5 s,
	100 % in ≤ 1.0 s	100 % in ≤ 1.0 s
Dimmable	no	no
Dimensions	ø 50 mm x 49 mm	ø 50 mm x 49 mm
Radiation angle	38°	38°
Equivalent to	35 W	35 W
Base	GU5.3	GU5.3
Power capability	5 W	5 W
Voltage	12 V⎓	12 V⎓
Energy consumption in	5.5 kWh1,000 h	5.5 kWh1,000 h
1,000 hours of operation		
Luminous efficiency	70 lm/W	70 lm/W
Mercury content	0.0 mg	0.0 mg
Colour consistency	< 0.6	< 0.6
Measured value of	5.5 W	5.5 W
power consumption		
Colour rendering index (Ra)	> 80	> 80
Measured life	30,000 h	30,000 h
Measured luminous flux	330 lm	320 lm
Lamp current at the end	80 %	80 %
of rated life		
Power factor	0.7	0.7
Current consumption	420 mA	420 mA





PSL-12/12

Order No. 27.0060

new

PSL-12/24

Order No. 27.0100

new

LED switch-mode PSUs, for indoor applications.

- Especially for LED installations
- 12 W
- Low-noise according to EMC standard EN 61000-3-2 class A
- Protected against short circuit, overload and overvoltage
- Connection via bare cable ends
- Plastic housing with mounting flange

Model	PSL-12/12	PSL-12/24
Input voltage	230 V~/50 Hz	230 V~/50 Hz
Output voltage	12 V⎓	24 V⎓
Charging/output current	1 A	0.5 A
Admiss. ambient temp.	-20 °C to +50 °C	-20 °C to +50 °C
Dimensions	77x40x29 mm	77x40x29 mm
Weight	78 g	78 g
Position	A	B

A

B

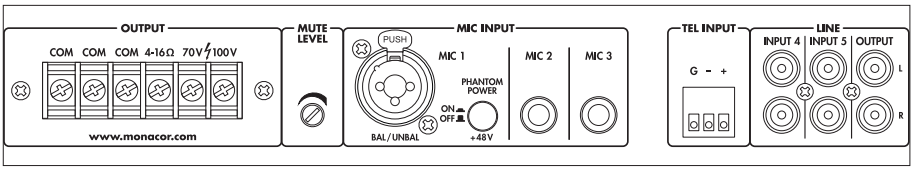
PA-324

Order No. 17.4420

482 mm 19" | 100V | 4Ω | 8Ω | 16Ω | new

Mono PA mixing amplifier

- 1 x 240 W_{RMS}
- 3 microphone inputs, one of which is a balanced input
- Mic 1 with priority circuit and adjustable automatic talkover
- 2 aux inputs
- 1 telephone input for telephone systems with audio output
- Speaker outputs via screw terminals
- 1 line output
- Input and output level controls
- 2-way tone control for the output
- 48 V phantom power supply for channel 1, can be switched on additionally
- 482 mm (19") rack installation with supplied mounting brackets



Model	PA-324
Output power	240 W_{RMS}, 340 W_{MAX}
Mic input	5 mV/600 Ω
Aux input	350 mV/10 kΩ
Telephone input	1 V/10 kΩ
Speaker output	4-16 Ω, 70/100 V
Frequency range	50-16,000 Hz
Equalizer bass	±10 dB/100 Hz
Equalizer, treble	±10 dB/10 kHz
S/N ratio	66 dB (mic)
	80 dB (aux)
THD	< 0.5 %
Power supply	230 V/50 Hz/740 VA
Dimensions	430x88x380 mm, 2 RS
Weight	16.6 kg
Inputs	1 x 6.3 mm/XLR (combo)
	1 x 6.3 mm jack (mic 1)
	2 x 6.3 mm jack (mic 2-3)
	2 x RCA L/R (aux 1-2)
	screw terminals (telephone)
Outputs	2 x RCA L/R (line out)

PA-24RCD

Order No. 17.4410

482 mm 19" | COMPACT DISC DIGITAL AUDIO | ANTI SHOCK | MP3 | USB | SD | new

CD and MP3 player with FM RDS tuner and USB interface, SD/MMC card slot.

- Autostart function (after being switched on or a power failure, the unit starts up with the last stored settings)
- FM RDS tuner with 24 station presets
- USB storage media can be connected directly
- For SD/MMC cards up to 32 GB (FAT16/FAT32), available at option
- CD drive with anti-shock system, audio CD/CD-R/CD-RW/MP3 CD
- Supports ID3 tags
- Folder navigation
- Dual output mode or single output mode for CD and tuner, adjustable
- Fast forward and reverse
- Repeat function (repeat 1, repeat all, repeat folder)
- Random play
- 482 mm (19") rack installation, 1 RS
- Mains operation or 24 V emergency power operation

Model	PA-24RCD
General information	
Frequency range	20-20,000 Hz
THD	< 0.1 %
Channel separation	> 60 dB
S/N ratio	> 85 dB
Wow and flutter	not measurable, quartz precision
Output, analogue	0-1 V
Power supply	230 V~/50 Hz/15 VA,
	24 V⎓/1.5 A
Admiss. ambient temp.	0-40 °C
Dim., player mech.	482x44x290 mm, 1 RS
Dim., control panel	-
Weight	5 kg
Connections	
Analogue output	1 x XLR, bal.
	2 x RCA L/R

PA-102

Order No. 17.2970

new

Mono PA mixing amplifier, 15 W_{MAX}.
- 1 adjustable microphone input
- 1 adjustable line input
- Supplied with hand-held push-to-talk microphone
- Siren function via push-button
- Metal housing
- Supplied with mounting brackets
- 12 V battery operation

Model	PA-102
Output power	8.5 W_{RMS}, 15 W_{MAX}/12 V
Mic input	3.4 mV/2.2 kΩ
Line input	240 mV/11 kΩ
Output	4+8 Ω
Frequency range	20-20,000 Hz
S/N ratio	70 dB
THD	< 0.3 %
Power supply	12 V⎓/2 A
Admiss. ambient temp.	0-40 °C
Dimensions	151x41x115 mm
Weight	410 g
Inputs	
Mic	1 x 6.3 mm
Line	1 x RCA L/R
Outputs	
Speakers	plug-in screw terminals
Power supply	plug-in screw terminals

TXA-802MBT

Order No. 17.4400

new

Bluetooth receiver module, for retrofitting the portable amplifier series TXA-800, TXA-850 and TXA-1000.
- Allows for a wireless reception of audio signals via Bluetooth-enabled devices, e.g. laptops, smartphones or tablet PCs
- Volume control with integrated on/off switch
- LEDs for indicating operating status and connection status
- Power supply: 12 V⎓/30 mA

IPA-25D

Order No. 03.0790

new

Digital hi-fi power amplifier module, mono version.
- Operating voltage: 12-24 V
- Class D concept
- Very high efficiency (> 90 %)
- Compact design due to concept without heat sink
- Short-circuit proof
- Thermal overload protection
- Shutdown input for a very low standby current (< 0.25 mA)

Model	IPA-25D
RMS output power	25 W_{RMS}/4 Ω/24 V
	30 W_{RMS}/8 Ω/24 V
	15 W_{RMS}/4 Ω/12 V
	8 W_{RMS}/8 Ω/12 V
Music output power	45 W_{MAX}/4 Ω/24 V
	45 W_{MAX}/8 Ω/24 V
	25 W_{MAX}/4 Ω/12 V
	12 W_{MAX}/8 Ω/12 V
THD	> 0.2 %/1 W
Output impedance	4-8 Ω
Frequency range	10-20,000 Hz
Input impedance	12 kΩ
Input voltage	140 mV
S/N ratio	> 100 dB, A-weighted
Standby current	14 mA
Power supply	12-24 V⎓/2.5 A
Dimensions	65x13x40 mm
Weight	25 g
Inputs	screw terminals
Outputs	screw terminals

16-channel Digital Voice Transmission System, 863-865 MHz

- Suitable as a tour guide system and for any other application in which a certain voice source is to be distributed to one or more receivers
- High resistance to interference due to digital transmission
- High operating range
- Frequency range perfectly adapted to voice transmissions
- Parallel operation of up to 4 different channels possible without any interference
- Extra small and lightweight transmitters and receivers
- Licence-free in the EU

ATS-20T

Order No. 25.5650

new

16-channel miniature transmitter, for microphone operation and audio line signals.

- Supplied with electret tie clip microphone
- Microphone input/audio line input via 3.5 mm jack with automatic detection, depending on the configuration (mono/stereo)
- LCD for indicating channel and battery status
- Mute button
- Supplied with lanyard

- Transmitting power: ≤ 10 mW (EIRP), operating range: approx. 100 m
- Power supply via integrated rech. lithium battery (3.7 V/600 mAh)
- Micro USB charging connection for ATS-12CB, ATS-35CB or USB charger, available at option
- Dimensions: 40x80x12 mm
- Weight: 37 g

Licence-free in the EU!

ATS-20R

Order No. 25.5640

new

16-channel miniature receiver

- Supplied with matching clip-on earphone
- Switches off automatically after not receiving an input signal for 20 minutes (power-saving function)
- LCD for indicating channel, carrier signal, volume and battery status

- Autolock function
- Supplied with lanyard
- Power supply via integrated rech. lithium battery (3.7 V/600 mAh)
- Micro USB charging connection for ATS-12CB, ATS-35CB or USB charger, available at option
- Dimensions: 40x87x12 mm
- Weight: 37 g

ATS-12CB

Order No. 25.5660

new

Transport bag with integrated charging function, for the transmitters and receivers of the ATS-20 series.

- For simultaneously charging the rech. batteries of up to 12 units

- Each slot with LED for indicating battery charging status
- Black nylon bag with zip fastener, carrying handle and compartments for accessories
- Supplied with matching PSU
- Dimensions: 350x110x120 mm
- Weight: 1.1 kg

Supplied without units.

ATS-35CB

Order No. 25.5670

new

Transport bag with integrated charging function, for the transmitters and receivers of the ATS-20 series.

- For simultaneously charging the rech. batteries of up to 35 units

- Each slot with LED for indicating battery charging status
- Black nylon bag with zip fastener, carrying handle and compartments for accessories
- Supplied with matching PSU
- Dimensions: 420x140x250 mm
- Weight: 3 kg

Supplied without units.

40-channel Mono PLL Voice Transmission System, 863-865 MHz

- Economy tour guide system
- Due to the narrow-band frequency range which has been perfectly adapted to voice transmissions, a parallel operation of up to 12 different channels is possible without any interference
- Licence-free in the EU

ATS-50T

Order No. 25.5170

new

40-channel PLL transmitter, for microphone operation and audio line signals.

- Integrated microphone
- Supplied with additional electret tie clip microphone
- Audio line input via 3.5 mm stereo jack
- LCD for indicating channel and battery status
- Mute button
- Belt clip
- Transmitting power: ≤ 10 mW (EIRP), operating range: approx. 100 m
- Power supply via 1 x 1.2 V NiMH rech. battery AA size (not supplied)
- Dimensions: 42x98x24 mm
- Weight: 45 g

Licence-free in the EU!

ATS-50R

Order No. 25.5160

new

40-channel PLL receiver

- Supplied with matching earpiece
- Adjustable headphone output
- Switches off automatically after not receiving an input signal for 20 minutes (power-saving function)
- LCD for indicating channel, carrier signal and battery status
- Autolock function
- Belt clip
- Power supply via 1 x 1.2 V NiMH rech. battery AA size (not supplied)
- Dimensions: 42x98x24 mm
- Weight: 45 g

ATS-25C

Order No. 25.5180

new

Transport case with integrated charging function, for the transmitters and receivers of the ATS-50 series.

- For simultaneously charging the rech. batteries of up to 25 units
- Each slot with LED for indicating battery charging status
- Transport case with black artificial leather cover
- Supplied with matching PSU
- Dimensions: 442x160x290 mm
- Weight: 7.5 kg

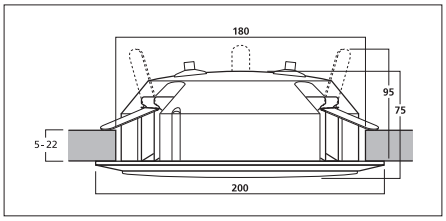
Supplied without units.

EDL-606EN
Order No. 16.3160

EDL-612EN
Order No. 16.3170

EDL-620EN
Order No. 16.3180

PA ceiling speakers, with EN 54-24 certification.
- 100 V line technique with 3 power taps
- Full range speaker with optimised voice reproduction
- Plastic cover with low mounting depth
- For a ceiling thickness from 5 to 22 mm
- Quick installation
- Robust metal basket and protective grille



Model	EDL-606EN	EDL-612EN	EDL-620EN
Frequency range	120-15,000 Hz	120-15,000 Hz	120-15,000 Hz
Power capability, 100 V	6/3/1.5 W_{RMS}	12/6/3 W_{RMS}	20/10/5 W_{RMS}
SPL (1 W/m)	93 dB	93 dB	93 dB
Max. rated SPL	101 dB	103 dB	105 dB
Type of speaker	180	180	180
Mounting cutout	ø 180 mm	ø 180 mm	ø 180 mm
Mounting depth	60 mm	60 mm	60 mm
Admiss. ambient temp.	0-40 °C	0-40 °C	0-40 °C
Dimensions	ø 200 mm x 70 mm	ø 200 mm x 70 mm	ø 200 mm x 70 mm
Weight	800 g	980 g	1.1 kg

ESP-303/SW
Order No. 16.3220

ESP-303/WS
Order No. 16.3230

Miniature PA speaker systems
- 100 V PA speaker system of a very compact size
- 8 cm (3") full range speaker with phase plug
- Power taps: 10/5/2.5 W
- High-quality wooden cabinet in black (SW) or white (WS) with protective metal grille
- Multi-purpose positioning and installation options
- 4 x M8 threaded inserts
- 2 x M6 threaded inserts, suitable e.g. for support LST-40
- Use of subwoofer systems is recommended
- Supplied with mounting bracket

Model	ESP-303/SW	ESP-303/WS
Frequency range	180-20,000 Hz	180-20,000 Hz
Power capability, 100 V	10/5/2.5 W_{RMS}	10/5/2.5 W_{RMS}
SPL (1 W/m)	88 dB	88 dB
Max. rated SPL	99 dB	99 dB
Admiss. ambient temp.	0-40 °C	0-40 °C
Dimensions	120x120x105 mm	120x120x105 mm
Weight	1 kg	1 kg
Other features	spring-load. speaker term.	spring-load. speaker term.

ESP-305/SW
Order No. 16.3240

ESP-305/WS
Order No. 16.3250

Miniature PA speaker systems
- 100 V PA speaker system of a very compact size
- 13 cm (5") full range speaker with neodymium magnet system
- Power taps: 20/10/5 W
- High-quality wooden cabinet in black (SW) or white (WS) with protective metal grille
- Multi-purpose positioning and installation options
- 4 x M8 threaded inserts
- 2 x M6 threaded inserts, suitable e.g. for support LST-40
- Use of subwoofer systems is recommended
- Supplied with mounting bracket

Model	ESP-305/SW	ESP-305/WS
Frequency range	140-18,000 Hz	140-18,000 Hz
Power capability, 100 V	20/10/5 W_{RMS}	20/10/5 W_{RMS}
SPL (1 W/m)	93 dB	93 dB
Max. rated SPL	106 dB	106 dB
Admiss. ambient temp.	0-40 °C	0-40 °C
Dimensions	147x146x152 mm	147x146x152 mm
Weight	1.2 kg	1.2 kg
Other features	spring-load. speaker term.	spring-load. speaker term.

ESP-157/WS
Order No. 16.3210

100V new

ESP-63/WS
Order No. 16.3200

100V new

PA wall speakers
- 100 V line technique via audio transformer with 2 power taps
- Excellent sound due to 2-way system
- Plastic cabinet of a special design with protective metal grille
- Closed rear panel, srewed
- Horizontal and vertical mounting possible
- Supplied with mounting screws

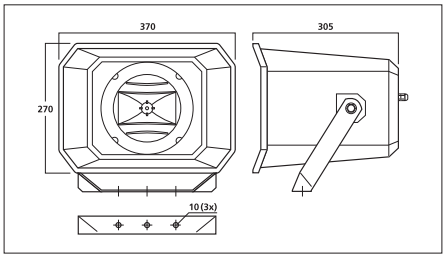
Model	ESP-157/WS	ESP-63/WS
Frequency range	100-20,000 Hz	100-20,000 Hz
Resonant frequency (fs)		
Power capability, 100 V	15/7.5 W_{RMS}	6/3 W_{RMS}
Power capability, 8 Ω	-	-
Power capability, 4 Ω		-
SPL (1 W/m)	91 dB	91 dB
Max. rated SPL	103 dB	101 dB
Type of speaker	130	130
Mounting cutout	-	-
Mounting depth	-	-
Admiss. ambient temp.	0-40 °C	0-40 °C
Dimensions	240x340x105 mm	240x340x105 mm
Weight	1.8 kg	1.7 kg
Other features	2-way system	2-way system

IT-250TW
Order No. 16.3190

100V 8Ω IP66 new

Weatherproof horn speaker (music horn), 2-way technology
- 100 V line technique or 8 Ω operation
- IP66 certified
- High-performance music horn at an attractive price
- 16 cm bass-midrange speaker and 25 mm (1") horn
- Suitable for general indoor and outdoor applications wherever a high sound pressure level and an excellent sound are required
- ABS plastic housing
- Supplied with mounting bracket and stainless steel screws
- 6 power taps, connection via screw terminal strip

Model	IT-250TW
Frequency range	150-15,000 Hz
SPL (1W/1m)	97 dB
Radiation angle (hor./vert.)	100°/60°
Admiss. ambient temp.	-20 °C to +50 °C
Dimensions	370x270x305 mm
Weight	4.1 kg
Special feature	IP66, ABS, 2-way



IT-10M
Order No. 16.0470

100V IP54 new

Flush-mount horn speaker (music horn) with full range speaker
- For wall mounting and ceiling installation
- 100 V line technique with 3 power taps
- After installation weatherproof and IP54 certified
- 5 cm (2.5") full range speaker with horn front attachment
- Suitable for general indoor and outdoor applications wherever a high sound pressure level and an excellent sound are required
- ABS plastic housing
- Mounting flange with foam rubber sealing
- Connection via terminal strip

NR-10M
Order No. 16.0480

4Ω IP54 new

Flush-mount horn speaker (music horn) with full range speaker, 4 Ω
- For wall mounting and ceiling installation
- After installation weatherproof and IP54 certified
- 4 Ω speaker system
- 5 cm (2.5") full range speaker with horn front attachment
- Suitable for general indoor and outdoor applications wherever a high sound pressure level and an excellent sound are required
- ABS plastic housing
- Mounting flange with foam rubber sealing
- Connection via terminal strip

Model	IT-10M	NR-10M
Power rating	10/5/2.5 W_{RMS}	20 W_{MAX}/4 Ω
Frequency range	200-15,000 Hz	200-15,000 Hz
SPL (1W/1m)	98 dB	98 dB
Radiation angle (hor./vert.)	100°/100°	100°/100°
Admiss. ambient temp.	0-40 °C	0-40 °C
Dimensions	120x120x120 mm	120x120x120 mm
Weight	0.75 kg	0.45 kg
Special feature	IP54, ABS	IP54, ABS

The Digital Recorders from MONACOR

impress by a state-of-the-art video surveillance technology. Depending on the model, the real-time feature allows to record up to 16 channels at full resolution which greatly facilitates the identification of events. The efficient set of chips provides an impressive recording quality and the H.264 data compression allows for a perfect utilisation of the storage capacity with very good image properties.

Convenient remote monitoring of the property is also possible without any problems via Internet access or via apps for smartphones or tablet PCs. Furthermore, the maximum storage capacity is an impressive 2 TB. The new 9-channel digital recorders from MONACOR are very functional and can easily be operated after a short instruction only. The ideal solution for an efficient protection of commercial and private properties.

DMR-1890SET

Order No. 18.3560

DIGITAL HDMI new

Video surveillance set, consisting of an 9-channel digital recorder and 4 high-resolution colour cameras TVCCD-157SET.

9-channel digital recorder DMR-1890:

- Including 1 TB hard disk (SATA)
- Supports cameras with a resolution of 960H
- Video compression: H.264
- Network connection, access via Internet Explorer
- 2 x USB 2.0 interface for exporting data onto a USB flash drive and for connecting a USB mouse
- Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com
- HDMI™ video output (Full HD 1080p)
- VGA output
- Video motion detector: 12x12 sensor surfaces
- 9 x audio input, 1 x audio output
- Supplied with PSU for cameras and recorders, infrared remote control, USB mouse and software package

4 high-resolution colour cameras TVCCD-157SET, for outdoor applications, IP66:

- Day/night function
- Fixed-focus lens (3.6 mm)
- 24 infrared LEDs with automatic activation (IR operating range: 10 m max.)
- Automatic switching from colour operation to B/W operation, depending on the illumination
- Supplied with sunshield, wall bracket and 18 m connection cable

For further specifications, please refer to the individual items.
Built-in hard disk!
Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com

Model	DMR-1890
Video inputs	9 x BNC
Video outputs	1 x BNC, main monitor
	1 x HDMI™
	1 x VGA
Audio inputs	9 x RCA
Audio outputs	1 x RCA
Resolution	960x576 pixels (25 fps)
Video compression	H.264
Recording	200 images/s max.
Menu adjustments	on-screen menu (OSD)
Recording mode	manual, alarm, timer,
	motion detector
Search mode	date and time, event
Lettering	OSD
Security	password protection
Video loss detection	included
Alarm inputs	9
Alarm outputs	1
Signal device	integrated
Interfaces	RS-485, USB 2.0, LAN (RJ45), HDMI™
Hard disks	optional, 1 x 2 TB max. (SATA)
Admiss. ambient temp.	0-40 °C
Dimensions	380x48x320 mm
Power supply	12 V⎓/5 A via
	suppl. PSU
Weight	1.45 kg

The Digital Recorders from MONACOR

impress by a state-of-the-art video surveillance technology. Depending on the model, the real-time feature allows to record up to 16 channels at full resolution which greatly facilitates the identification of events. The efficient set of chips provides an impressive recording quality and the H.264 data compression allows for a perfect utilisation of the storage capacity with very good image properties.

Convenient remote monitoring of the property is also possible without any problems via Internet access or via apps for smartphones or tablet PCs. Furthermore, the maximum storage capacity is an impressive 2 TB. The new 9-channel digital recorders from MONACOR are very functional and can easily be operated after a short instruction only. The ideal solution for an efficient protection of commercial and private properties.

DMR-2890SET

Order No. 18.3570

DIGITAL HDMI new

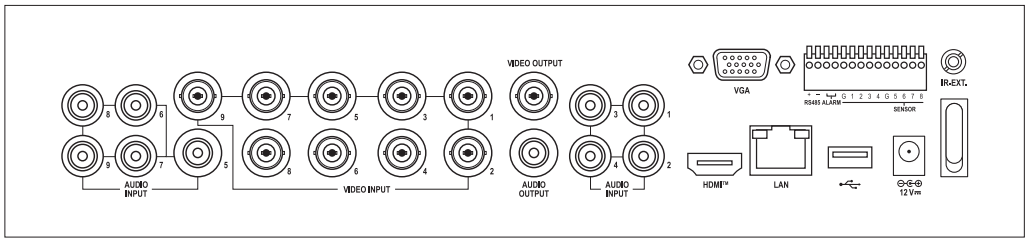
Video surveillance set, consisting of an 9-channel digital recorder and 4 high-resolution colour dome cameras TVCCD-257SET.

9-channel digital recorder DMR-1890:
- Including 1 TB hard disk (SATA)
- Supports cameras with a resolution of 960H
- Video compression: H.264
- Network connection, access via Internet Explorer
- 2 x USB 2.0 interface for exporting data onto a USB flash drive and for connecting a USB mouse
- Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com
- HDMI™ video output (Full HD 1080p)
- VGA output
- Video motion detector: 12x12 sensor surfaces
- 9 x audio input, 1 x audio output
- Power supply via supplied PSU
- Supplied with PSU, infrared remote control, USB mouse and software package

4 high-resolution colour dome cameras TVCCD-257SET, for outdoor applications, IP66:
- Vandal-resistant metal housing
- Day/night function
- Zoom lens (4-9 mm)
- 30 infrared LEDs for automatic activation (IR operating range: 15 m max.)
- Automatic switching from colour operation to B/W operation, depending on the illumination
- Power supply via supplied PSU
- Supplied with 18 m connection cable

For further specifications, please refer to the individual items.
Built-in hard disk!
Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com

Model	DMR-1890
Video inputs	9 x BNC
Video outputs	1 x BNC, main monitor
	1 x HDMI™
	1 x VGA
Audio inputs	9 x RCA
Audio outputs	1 x RCA
Resolution	960x576 pixels (25 fps)
Video compression	H.264
Recording	200 images/s max.
Menu adjustments	on-screen menu (OSD)
Recording mode	manual, alarm, timer,
	motion detector
Search mode	date and time, event
Lettering	OSD
Security	password protection
Video loss detection	included
Alarm inputs	9
Alarm outputs	1
Signal device	integrated
Interfaces	RS-485, USB 2.0, LAN (RJ45), HDMI™
Hard disks	optional, 1 x 2 TB max. (SATA)
Admiss. ambient temp.	0-40 °C
Dimensions	380x48x320 mm
Power supply	12 V⎓/5 A via
	suppl. PSU
Weight	1.45 kg



DMR-1890

Order No. 18.3550

DIGITAL HDMI™ new

9-channel digital recorder

- Supports cameras with a resolution of 960H
- Video compression: H.264
- Network connection, access via Internet Explorer
- HDMI™ video output (Full HD, 1080p)
- VGA output
- 2 x USB 2.0 interface for exporting data onto a USB flash drive and for connecting a USB mouse
- Remote access is possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com
- Video motion detector, 12x12 sensor surfaces
- Recording speed: up to 200 images/s, depending on the resolution
- 3 recording qualities
- Recording time depends on recording speed, recording quality and hard disk capacity
- Manual recording, alarm-controlled, time-controlled or motion-triggered recording
- Quick search by time list, event list or alarm list
- Password protection
- Brightness, colour, contrast and focus can be adjusted for each channel
- PTZ cameras can be controlled (PELCO D, PELCO P)
- 9 x alarm input, 1 x alarm output
- 9 x audio input, 1 x audio output
- Supplied with infrared remote control, USB mouse and software package
- OSD: German, English, French, Spanish, Polish and other languages
- Instruction manual: German, English

Supplied without hard disk.
Matching SATA hard disk is available at option, supports 1 x 2 TB.
Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com
Almost silent operation due to fanless cooling concept!

Model	DMR-1890
Video inputs	9 x BNC
Video outputs	1 x BNC, main monitor
	1 x HDMI™
	1 x VGA
Audio inputs	9 x RCA
Audio outputs	1 x RCA
Resolution	960x576 pixels (25 fps)
Video compression	H.264
Recording	200 images/s max.
Menu adjustments	on-screen menu (OSD)
Recording mode	manual, alarm, timer,
	motion detector
Search mode	date and time, event
Lettering	OSD
Security	password protection
Video loss detection	included
Alarm inputs	9
Alarm outputs	1
Signal device	integrated
Interfaces	RS-485, USB 2.0, LAN (RJ45), HDMI™
Hard disks	optional, 1 x 2 TB max. (SATA)
Admiss. ambient temp.	0-40 °C
Dimensions	380x48x320 mm
Power supply	12 V⎓/5 A via
	suppl. PSU
Weight	1.45 kg

TVCCD-157SET

960H IP66 D/N new

Order No. 18.3690

High-resolution colour camera, with day/night function.

- Horizontal resolution 30% higher than standard cameras
- Fixed-focus lens (3.6 mm)
- Due to 24 infrared LEDs, suitable for application in the dark. For this purpose, the camera switches to B/W operation (IR operating range: 10 m, with optimum reflection)
- Automatic switching from colour operation to B/W operation, depending on the illumination
- Automatic electronic shutter
- Features: BLC, AGC, day/night
- Supplied with sunshield and wall bracket
- 18 m connection cable VSC-150 is available at option

TVCCD-257SET

960H IP66 VARIO ZOOM D/N new

Order No. 18.3700

High-resolution colour dome camera, for outdoor applications, with day/night function.

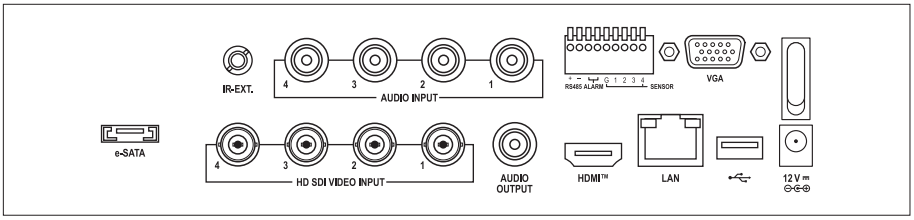
- Horizontal resolution 30% higher than standard cameras
- Vandal-resistant metal housing
- Zoom lens (4-9 mm)
- Due to 30 infrared LEDs, suitable for application in the dark. For this purpose, the camera switches to B/W operation (IR operating range: 15 m, with optimum reflection)
- Automatic switching from colour operation to B/W operation, depending on the illumination
- Camera module for panning and tilting
- 3-axis pivoting frame, thus wall mounting possible
- Automatic electronic shutter
- Features: BLC, AGC, ATW
- 18 m connection cable VSC-150 is available at option

Model	TVCCD-157SET	TVCCD-257SET
Image sensor	8.5 mm (⅓") CCD	8.5 mm (⅓") CCD
Number of pixels	hor. 976 x vert. 582	hor. 976 x vert. 582
Resolution	700 lines	700 lines
Lens	3.6 mm/1:2.0	4-9 mm/1:1.6-2.4
Min. illumination	0.005 lx	0.01 lx (colour),
		0 lx (B/W) with
		IR illumination
Admiss. ambient temp.	-10 °C to +50 °C	-10 °C to +50 °C
Power supply	12 V⎓/315 mA	12 V⎓/350 mA
Dimensions	68x65x144 mm	ø 137 mm x 100 mm
Weight	250 g	350 g
Other features	IP66, AGC, BLC,	IP66, AGC, ATW, BLC,
	suit. for IR	suit. for IR

Full HD Video Surveillance with Minimum Installation Effort

HD-SDI is the modern solution for outdated analogue video surveillance systems which do not display the detailed image as required.
HD-SDI means "High Definition Serial Digital Interface". The HD-SDI technology allows for Full HD (1920x1080 pixels) image transmission and recording while still using standard coaxial cables of up to 50 m. With the application of special low-loss coaxial cables, e.g. KHD-1 from MONACOR, cable lengths of up to 170 m can be realised. Thus, analogue systems with an existing coaxial cable installation can simply be extended or retrofitted with the digital megapixel technology via plug-and-play.

This option is a lot more cost-effective than setting up a network infrastructure for a comparable IP solution. The installer will also be pleased about the easy installation, because complex network connections are not required. Furthermore, there is no need for additional components, e.g. switches.
This type of system upgrade is also interesting for companies, authorities or other public facilities whose safety regulations prohibit the use of network cameras in order to prevent external access to the IP network.



HDVR-184

Order No. 18.3580

DIGITAL HDMI HD 1080p new

4-channel HD-SDI digital recorder

- Supports HD-SDI cameras (resolution: 1920x1080 pixels)
- Video compression: H.264
- Network connection, access via Internet Explorer
- HDMI™ video output (Full HD 1080p)
- VGA output
- 2 x USB 2.0 interface for exporting data onto a USB flash drive and for connecting a USB mouse
- Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com
- Recording/reproduction: 1-100 images/s, 25 images/s per channel
- Pentaplex operation allows for simultaneous recording, reproduction, archiving, live view and remote access
- External storage extension via eSATA interface
- 4 x alarm input, 1 x alarm output
- 4 x audio input, 1 x audio output
- Supplied with infrared remote control and USB mouse
- Instruction manual: German, English

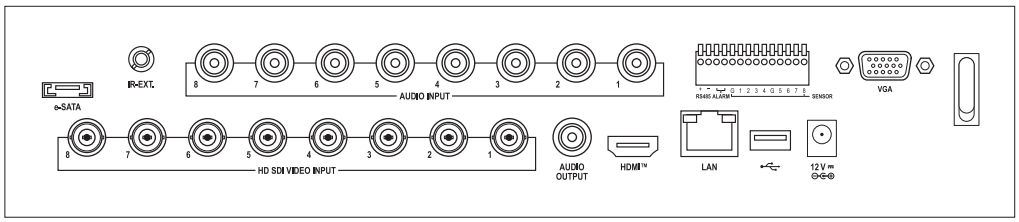
Supplied without hard disks.
Matching SATA hard disks are available at option, supports 2 x 2 TB.
Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com

Model	HDVR-184
Video inputs	4 x HD-SDI (BNC)
Video outputs	1 x HDMI™, main monitor
	1 x VGA, call monitor
Audio inputs	4 x RCA
Audio outputs	1 x RCA
Resolution	1920x1080 pixels
Video compression	H.264
Recording	25 images/s max. per camera
Menu adjustments	on-screen menu (OSD)
Recording mode	manual, timer,
	event
Search mode	date and time, event, smart search
Lettering	OSD
Security	password protection
Video loss detection	included
Alarm inputs	4
Alarm outputs	1
Signal device	integrated
Interfaces	RS-485, USB 2.0, LAN (RJ45),
	HDMI™, eSATA
Hard disks	optional, 2 x 2 TB max. (SATA)
Admiss. ambient temp.	0-40 °C
Dimensions	380x50x340 mm
Power supply	12 V⎓/5 A via
	suppl. PSU
Weight	0.95 kg

Full HD Video Surveillance with Minimum Installation Effort

HD-SDI is the modern solution for outdated analogue video surveillance systems which do not display the detailed image as required.
HD-SDI means "High Definition Serial Digital Interface". The HD-SDI technology allows for Full HD (1920x1080 pixels) image transmission and recording while still using standard coaxial cables of up to 50 m. With the application of special low-loss coaxial cables, e.g. KHD-1 from MONACOR, cable lengths of up to 170 m can be realised. Thus, analogue systems with an existing coaxial cable installation can simply be extended or retrofitted with the digital megapixel technology via plug-and-play.

This option is a lot more cost-effective than setting up a network infrastructure for a comparable IP solution. The installer will also be pleased about the easy installation, because complex network connections are not required. Furthermore, there is no need for additional components, e.g. switches.
This type of system upgrade is also interesting for companies, authorities or other public facilities whose safety regulations prohibit the use of network cameras in order to prevent external access to the IP network.



HDVR-188

Order No. 18.3590

DIGITAL HDMI HD 1080p new

8-channel HD-SDI digital recorder

- Supports HD-SDI cameras (resolution: 1920x1080 pixels)
- Video compression: H.264
- Network connection, access via Internet Explorer
- HDMI™ video output (Full HD 1080p)
- VGA output
- 2 x USB 2.0 interface for exporting data onto a USB flash drive and for connecting a USB mouse
- Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com
- Recording/reproduction: 1-200 images/s, 25 images/s per channel
- Pentaplex operation allows for simultaneous recording, reproduction, archiving, live view and remote access
- External storage extension via eSATA interface
- 8 x alarm input, 1 x alarm output
- 8 x audio input, 1 x audio output
- Supplied with infrared remote control and USB mouse
- Instruction manual: German, English

Supplied without hard disks.
Matching SATA hard disks are available at option, supports 2 x 2 TB.
Almost silent operation due to fanless cooling concept!
Remote access possible via many smartphones. Please read the notes under SUPPORT/DOWNLOADS at www.monacor.com

Model	HDVR-188
Video inputs	8 x HD-SDI (BNC)
Video outputs	1 x HDMI™, main monitor
	1 x VGA, main monitor
Audio inputs	8 x RCA
Audio outputs	1 x RCA
Resolution	1920x1080 pixels
Video compression	H.264
Recording	25 images/s max. per camera
Menu adjustments	on-screen menu (OSD)
Recording mode	manual, timer,
	event
Search mode	date and time, event, smart search
Lettering	OSD
Security	password protection
Video loss detection	included
Alarm inputs	8
Alarm outputs	1
Signal device	integrated
Interfaces	RS-485, USB 2.0, LAN (RJ45),
	HDMI™, eSATA
Hard disks	optional, 2 x 2 TB max. (SATA)
Admiss. ambient temp.	0-40 °C
Dimensions	380x50x340 mm
Power supply	12 V⎓/5 A via
	suppl. PSU
Weight	1.5 kg

HDCAM-1010

Order No. 18.3530

2 megapixel HD-SDI module colour camera, with wide dynamic range function.
- Progressive scan image sensor for images without field distortions
- Fixed-focus pinhole lens (4.3 mm)
- Due to the extended dynamic range of the wide dynamic range function (WDR), an application is also possible in unfavourable backlighting conditions. This camera allows to display the face of a person standing in front of a bright window or in a doorway
- Digital noise reduction (DNR) for improving the image quality in unfavourable lighting conditions and also for saving hard disk capacities when recording with digital recorders
- Privacy masking function, 32 zones
- Automatic electronic shutter
- On-screen menu control (OSD)
- 70 cm connection cable for power supply and video (BNC)

Compatible with HD-SDI digital recorders and HD-SDI monitors

HDCAM-1020

Order No. 18.3540

2 megapixel HD-SDI miniature colour camera, with wide dynamic range function.
- Progressive scan image sensor for images without field distortions
- Fixed-focus pinhole lens (4.3 mm)
- Due to the extended dynamic range of the wide dynamic range function (WDR), an application is also possible in unfavourable backlighting conditions. This camera allows to display the face of a person standing in front of a bright window or in a doorway
- Digital noise reduction (DNR) for improving the image quality in unfavourable lighting conditions and also for saving hard disk capacities when recording with digital recorders
- Privacy masking function, 32 zones
- Automatic electronic shutter
- On-screen menu control (OSD)
- 70 cm connection cable for power supply and video (BNC)

Compatible with HD-SDI digital recorders and HD-SDI monitors

Model	HDCAM-1010	HDCAM-1020
Image sensor	CMOS, 2 megapixels, progressive scan	CMOS, 2 megapixels, progressive scan
Number of pixels	1920x1080 pixels max.	1920x1080 pixels max.
Lens	4.3 mm/1:2.0	4.3 mm/1:2.0
Min. illumination	0.2 lx (colour), 0.01 lx (B/W)	0.2 lx (colour), 0.01 lx (B/W)
Admiss. ambient temp.	0-40 °C	0-40 °C
Power supply	12 V⎓/500 mA	12 V⎓/500 mA
Dimensions	30x30x20 mm	ø 15 mm x 47 mm
Weight	100 g	100 g
Other features	AGC, BLC, 3D DNR	AGC, BLC, 3D DNR

HDCAM-340

Order No. 18.3600

IP66 D/N WDR DNR HD 1080p new

2 megapixel HD-SDI mini colour dome camera, with wide dynamic range function and professional day/night function.

- Progressive scan image sensor for images without field distortions
- Weatherproof outdoor housing
- Due to the extended dynamic range of the wide dynamic range function (WDR), an application is also possible in unfavourable backlighting conditions. This camera allows to display the face of a person standing in front of a bright window or in a doorway
- Digital noise reduction (DNR) for improving the image quality in unfavourable lighting conditions and also for saving hard disk capacities when recording with digital recorders
- With integrated IR suppression filter for perfect colour quality at daytime, automatic change of suppression filter at night for activating the IR light suitability and increasing the luminous sensitivity in B/W operation (except EBH-5102)
- Fixed-focus lens (3.6 mm)
- Due to 23 infrared LEDs, suitable for application in the dark. For this purpose, the camera switches to B/W operation (IR operating range: 15 m, with optimum reflection)
- Integrated video motion detector
- Privacy masking function, 32 zones
- Mirror function
- Automatic electronic shutter
- On-screen menu control (OSD)
- 70 cm connection cable for power supply and video (BNC)
- Matching PSU (PSS-1205DC or PS-120WP) is available at option

Compatible with the HD-SDI digital recorders EPHD-4, EPHD-8, EDRHD-4H4, HDVR-184 and HDVR-188.

HDCAM-370

Order No. 18.3610

IP66 WDR D/N VARIO ZOOM DNR HD 1080p new

2 megapixel HD-SDI colour dome camera, with professional day/night function.

- Progressive scan image sensor for images without field distortions
- Vandal-resistant and weatherproof outdoor housing
- Digital noise reduction (DNR) for improving the image quality in unfavourable lighting conditions and also for saving hard disk capacities when recording with digital recorders
- 4-fold digital zoom
- Zoom lens (2.8-12 mm)
- With integrated IR suppression filter for perfect colour quality at daytime, automatic change of suppression filter at night for activating the IR light suitability and increasing the luminous sensitivity in B/W operation
- Due to 30 infrared LEDs, suitable for application in the dark. For this purpose, the camera switches to B/W operation (IR operating range: 20 m, with optimum reflection)
- Integrated video motion detector
- Privacy masking function, 32 zones
- Mirror function
- Automatic electronic shutter
- On-screen menu control (OSD)
- 50 cm connection cable for power supply and video (BNC)
- Matching PSU (PSS-1210DC or PS-120WP) is available at option

Compatible with the HD-SDI digital recorders EPHD-4, EPHD-8, EDRHD-4H4, HDVR-184 and HDVR-188.

Model	HDCAM-340	HDCAM-370
Image sensor	CMOS, 2 megapixels, progressive scan	CMOS, 2 megapixels, progressive scan
Number of pixels	1920x1080 pixels max.	1920x1080 pixels max.
Lens	3.6 mm/1:1.8	2.8-12 mm/1:1.4
Min. illumination	0.2 lx (colour), 0.03 lx (B/W)	0.4 lx (colour), 0.1 lx (B/W)
Admiss. ambient temp.	-10 °C to +50 °C	-10 °C to +50 °C
Power supply	12 V⎓/220 mA	12 V⎓/350 mA
Dimensions	ø 93 mm x 90 mm	ø 140 mm x 103 mm
Weight	500 g	1.2 kg
Other features	IP66, AGC, BLC, WDR, 3D DNR, suit. for IR	IP66, AGC, BLC, WDR, 3D DNR, suit. for IR

HDCAM-440

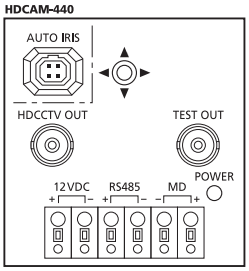
Order No. 18.3620

D/N WDR DNR HD 1080p new

2 megapixel HD-SDI colour camera, with wide dynamic range function and day/night function.

- Progressive scan image sensor for images without field distortions
- Due to the extended dynamic range of the wide dynamic range function (WDR), an application is also possible in unfavourable backlighting conditions. This camera allows to display the face of a person standing in front of a bright window or in a doorway
- Digital noise reduction (DNR) for improving the image quality in unfavourable lighting conditions and also for saving hard disk capacities when recording with digital recorders
- Integrated video motion detector
- Privacy masking function, 32 zones
- Mirror function
- Automatic electronic shutter
- On-screen menu control (OSD)
- C/CS mount thread
- Connection for DC-controlled and video signal controlled lenses
- Matching PSU (PSS-1205DC) is available at option
- Supplied without lens, matching lenses VGM-288ASIR and VGM-850ASIR are available at option

Compatible with the HD-SDI digital recorders EPHD-4, EPHD-8, EDRHD-4H4, HDVR-184 and HDVR-188.



HDCAM-620

Order No. 18.3630

IP66 D/N WDR DNR HD 1080p new

2 megapixel HD-SDI colour camera, with wide dynamic range function and professional day/night function.

- Progressive scan image sensor for images without field distortions
- Weatherproof outdoor housing
- Due to the extended dynamic range of the wide dynamic range function (WDR), an application is also possible in unfavourable backlighting conditions. This camera allows to display the face of a person standing in front of a bright window or in a doorway
- Digital noise reduction (DNR) for improving the image quality in unfavourable lighting conditions and also for saving hard disk capacities when recording with digital recorders
- Fixed-focus lens (3.6 mm)
- Due to 42 infrared LEDs, suitable for application in the dark. For this purpose, the camera switches to B/W operation (IR operating range: 15 m, with optimum reflection)
- With integrated IR suppression filter for perfect colour quality at daytime, automatic change of suppression filter at night for activating the IR light suitability and increasing the luminous sensitivity in B/W operation
- Integrated video motion detector
- Privacy masking function, 32 zones
- Mirror function
- Automatic electronic shutter
- On-screen menu control (OSD)
- Supplied with sunshield and wall bracket
- 60 cm connection cable for power supply and video (BNC)
- Matching PSU (PSS-1210DC or PS-120WP) is available at option

Compatible with the HD-SDI digital recorders EPHD-4, EPHD-8, EDRHD-4H4, HDVR-184 and HDVR-188.

Model	HDCAM-440	HDCAM-620
Image sensor	CMOS, 2 megapixels, progressive scan	CMOS, 2 megapixels, progressive scan
Number of pixels	1920x1080 pixels max.	1920x1080 pixels max.
Lens	not supplied	3.6 mm/1:1.2
Min. illumination	0.2 lx (colour), 0.03 lx (B/W)	0.2 lx (colour), 0.03 lx (B/W)
Admiss. ambient temp.	0-40 °C	-10 °C to +45 °C
Power supply	12 V⎓/220 mA	12 V⎓/600 mA
Dimensions	47x48x71 mm	86x88x215 mm
Weight	175 g	543 g
Other features	AGC, BLC, 3D DNR	IP66, AGC, BLC, 3D DNR, suit. for IR

HDCAM-650

Order No. 18.3730

IP66 D/N WDR DNR HD 1080p new

2 megapixel HD-SDI colour camera, with wide dynamic range function and professional day/night function.
- Zoom lens (6-50 mm)
- Weatherproof outdoor housing
- Due to 30 infrared LEDs (5 of which are super bright LEDs), suitable for application in the dark. For this purpose, the camera switches to B/W operation (IR operating range: 70 m, with optimum reflection)
- Progressive scan image sensor for images without field distortions
- Due to the extended dynamic range of the wide dynamic range function (WDR), an application is also possible in unfavourable backlighting conditions. This camera allows to display the face of a person standing in front of a bright window or in a doorway
- Digital noise reduction (DNR) for improving the image quality in unfavourable lighting conditions and also for saving hard disk capacities when recording with digital recorders
- With integrated IR suppression filter for perfect colour quality at daytime, automatic change of suppression filter at night for activating the IR light suitability and increasing the luminous sensitivity in B/W operation
- Integrated video motion detector
- Privacy masking function, 32 zones
- Mirror function
- Automatic electronic shutter
- On-screen menu control (OSD)
- Supplied with sunshield and wall bracket
- 40 cm connection cable for power supply and video (BNC)
- Matching PSU (PSS-1210DC or PS-120WP) is available at option

Compatible with the HD-SDI digital recorders EPHD-4, EPHD-8, EDRHD-4H4, HDVR-184 and HDVR-188.

Model	HDCAM-650
Image sensor	CMOS, 2 megapixels, progressive scan
Number of pixels	1920x1080 pixels max.
Lens	6-50 mm/1:1.4
Min. illumination	0.1 lx (colour)
Admiss. ambient temp.	-10 °C to +50 °C
Power supply	12 V⎓/1 A
Dimensions	ø 95 mm x 150 mm
Weight	1.4 kg
Other features	IP66, AGC, BLC, 3D DNR, suit. for IR

HDEXT-206

Order No. 18.3670

new

Repeater, for HD-SDI video signals.
- For cable lengths of up to 2 x 200 m without loss of signal
- Signal can be extended to a maximum of 1,200 m by using up to 5 HDEXT-206, length of single route: 200 m max.
- 2 x BNC jack
- RS485 interface
- Power supply via supplied PSU
- Dimensions: 67x27x91 mm
- Weight: 300 g

HDCAT-200

Order No. 18.3650

new

Passive transmission set, for HD-SDI video signals.
- With HD resolution and Cat. 6 cable: up to 45 m, with Cat. 5 cable: up to 30 m possible
- For ready made-up Cat. 5 or Cat. 6 network cables
- Cable connection via RJ45 jack
- 10 cm connection cable with BNC plug
- Passive, no power supply required
- Supplied in pairs

HDDIST-104

Order No. 18.3660

new

4-way splitter, for splitting one video signal to four HD-SDI terminal devices.
- Input: 1 x BNC jack
- Outputs: 4 x BNC jack
- Power LED and LED indicator for HD-SDI signal
- Power supply via supplied PSU
- Dimensions: 88x30x75 mm
- Weight: 300 g

HDSDI-100CON

Order No. 18.8760

new

HD-SDI/HDMI™ converter, for connecting a HD-SDI camera to a monitor/TV with HDMI™ connection.
- Input: 1 x HD-SDI
- Outputs: 1 x HD-SDI, 1 x HDMI™
- Recording possible with a HD-SDI recorder via HD-SDI feed-through output
- Supplied with mounting accessories
- Admissible ambient temperature: 0-70 °C
- Power supply via supplied plug-in PSU
- Dimensions: 113x25x65 mm
- Weight: 310 g

VNC-3040W

Order No. 18.3750

IP66 WDR VARIO ZOOM D/N micro SD 3 MP new

3 megapixel network colour camera for outdoor applications, with integrated micro SD card recorder, day/night function, webserver and WLAN 802.11b/g/n.

- Maximum resolution: 2048x1536 pixels
- Zoom lens: 3-9 mm/1:1.8, focus and zoom can be adjusted manually at the camera
- Due to 35 infrared LEDs, suitable for application in the dark. For this purpose, the camera switches to B/W operation (IR operating range: 25 m, with optimum reflection)
- Image compression: H.264, MJPEG, MPEG-4
- 30 fps max. with 1920x1080 pixels
- Integrated micro SD card slot (for media up to 32 GB, not supplied)
- Privacy masking function, 3 zones
- Video motion detector function, 3 zones
- Bidirectional audio transmission
- Supplied with recording software, sunshield, wall bracket, antenna with SMA connection and PSU
- 0.4 m connection cable for power supply, video (BNC), audio (3.5 mm jack), network (RJ45) and alarm

VNC-3050

Order No. 18.3760

IP66 WDR VARIO ZOOM D/N micro SD PoE 3 MP new

3 megapixel network colour camera for outdoor applications, with integrated micro SD card recorder, day/night function and webserver.

- Maximum resolution: 2048x1536 pixels
- Zoom lens: 3-9 mm/1:1.8, focus and zoom can be adjusted manually at the camera
- Due to 35 infrared LEDs, suitable for application in the dark. For this purpose, the camera switches to B/W operation (IR operating range: 25 m, with optimum reflection)
- Image compression: H.264, MJPEG, MPEG-4
- 30 fps max. with 1920x1080 pixels
- Integrated micro SD card slot (for media up to 32 GB, not supplied)
- Privacy masking function, 3 zones
- Video motion detector function, 3 zones
- Bidirectional audio transmission
- Supplied with recording software, sunshield and wall bracket
- 0.4 m connection cable for power supply, video (BNC), audio (3.5 mm jack), network (RJ45) and alarm
- Power supply via supplied PSU or via Power over Ethernet (PoE)

VNC-HOLD

Order No. 18.3770

IP66 new

Connection box for outdoor applications

- Matching the 2 and 3 megapixel network colour cameras VNC-2044, VNC-3040W, VNC-3050
- Diecast aluminium housing
- Dimensions: ø 135 mm x 65 mm
- Weight: 500 g

Model	VNC-3040W	VNC-3050
Image sensor	8.5 mm (⅓") CMOS, 3 megapixels	8.5 mm (⅓") CMOS, 3 megapixels
Audio outputs	1 x 3.5 mm jack	1 x 3.5 mm jack
Video output	1 Vpp/75 Ω	1 Vpp/75 Ω
Image size	2048x1536 pixels max.	2048x1536 pixels max.
	(3 megapixels)	(3 megapixels)
Lens	3-9 mm/1:1.8	3-9 mm/1:1.8
Min. illumination	0.1 lx (colour)	0.1 lx (colour)
	0.05 lx (B/W)	0.05 lx (B/W)
Compression method	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Video streaming	3-way	3-way
Ethernet	RJ45, 10/100 Mbps and WLAN	RJ45, 10/100 Mbps and WLAN
Protocols	HTTP, HTTPS, SNMP, Qos/DSCP, Acess list,	HTTP, HTTPS, SNMP, Qos/DSCP, Acess list,
	IEEE 802.1X, RTSP, TCP/IP, UDP, SMTP, FTP,	IEEE 802.1X, RTSP, TCP/IP, UDP, SMTP, FTP,
	PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA,	PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA,
	Bonjour	Bonjour
Power supply	via suppl. PSU	via suppl. PSU
		or PoE
Admiss. ambient temp.	-10 °C to +45 °C	-10 °C to +45 °C
Dimensions	ø 86 mm x 235 mm	ø 86 mm x 300 mm
Weight	500 g	800 g
Other features	IP66	IP66
	1 x alarm input	1 x alarm input
	1 x alarm output	1 x alarm output

EMN-2320

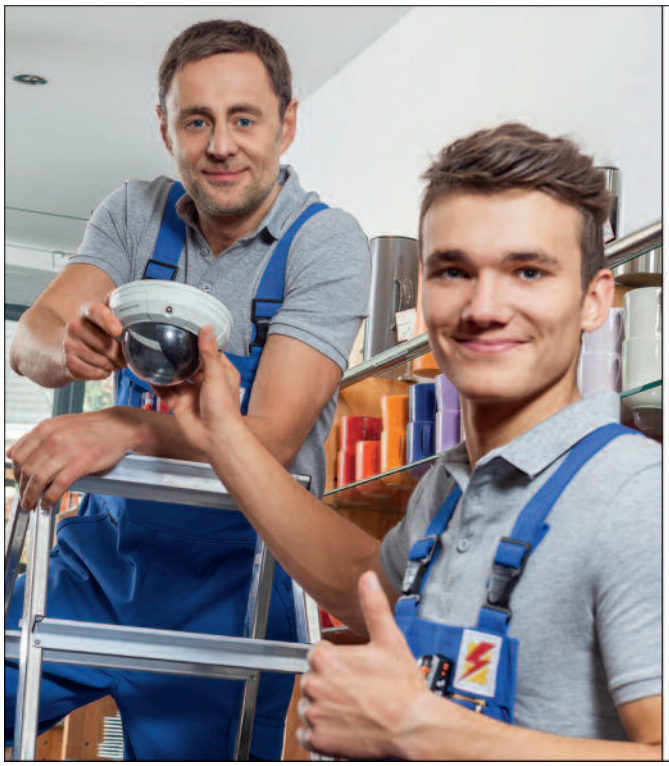
Order No. 18.3780

IP67 WDR D/N micro SD PoE 3 MP new

3 megapixel network colour dome camera for outdoor applications, with integrated micro SD card recorder, webserver, WDR function and day/night function.

- Vandal-resistant outdoor housing
- Maximum resolution: 12.5 fps with 2048x1536 pixels (25 fps max.)
- Fixed focus lens: 3.6 mm/1:1.6
- Due to the extended dynamic range of the wide dynamic range function (WDR), an application is also possible in unfavourable backlighting conditions. This camera allows to display the face of a person standing in front of a bright window or in a doorway
- Image compression: H.264, MJPEG, MPEG-4, multi-stream
- Integrated micro SD card slot (for media up to 64 GB, not supplied)
- Webserver function for the connection to LAN or the Internet
- Video motion detector function, 4 zones
- Audio feature via built-in microphone
- 3-axis pivoting frame, thus wall mounting possible
- Power supply via optional PSU (e.g. PSS-1210DC, PS-120WP) or via Power over Ethernet (PoE)

Model	EMN-2320
Image sensor	8.5 mm (⅓") CMOS, 3 megapixels
Audio inputs	mic, built-in,
	3.5 mm jack
Image size	2048x1536 pixels
Lens	3.6 mm/1:1.6
Min. illumination	0.5 lx (colour)
	0.1 lx (B/W)
Compression method	H.264, MJPEG, MPEG-4
Video streaming	multi-stream (2048x1536 max., 12.5 images/s)
Ethernet	RJ45, 10/100 Mbps, PoE (IEEE 802.3af)
Protocols	HTTP, TCP/IP, UDP, RTP, RTSP, FTP,
	SMTP, SNMP, DHCP, DNS, DDNS, NTP, PSIA, ONVIF
Power supply	10-36 V⎓/3.5 W max.
	via optional PSU or PoE
Admiss. ambient temp.	-20 °C to +55 °C
Dimensions	112x47x130 mm
Weight	500 g
Other features	IP67, AGC, BLC, WDR, 3D DNR



Crystal Clear Images with Minimum Effort

"The new HD-SDI systems provide images of an exceptionally high quality. Full HD resolution while still using coaxial cables means that the installation effort can considerably be reduced which is highly cost-effective."

Jens Neumann, 43, electrician

The product range from MONACOR® now includes: HD-SDI

MONACOR®

www.monacor.com

SAG-100

Order No. 04.3960

LED new

Alarm unit, with strobe light signalling system in LED technology.

- Visual and audible signal device, can be controlled individually
- 4 LEDs
- Piezo siren
- Operating voltage: 12 V⎓
- Connection cable: 25 cm

Model	SAG-100
Housing	ABS plastic
SPL	95 dB/1 m
Alarm signal	wailing sound
Power supply	12 V⎓/200 mA (siren + flash)
	12 V⎓/90 mA (flash only)
Dimensions	74x122x46 mm
Weight	120 g

SAG-50

Order No. 04.3950

LED new

Visual and audible signal device

- Red signal LED
- Piezo siren
- Operating voltage: 12 V⎓
- Connection cable: 25 cm

Model	SAG-50
Housing	ABS plastic
SPL	80 dB/1 m
Alarm signal	pulsed sound
Power supply	12 V⎓/100 mA
Dimensions	68x55x22 mm
Weight	35 g

AS-122

Order No. 04.3920

new

Piezo alarm siren

- Low current consumption due to piezo technology
- ABS plastic housing
- Voltage range: 6-14 V⎓

Model	AS-122
Housing	ABS plastic
SPL	117 dB/1 m
Alarm signal	wailing sound
Power supply	12 V⎓/150 mA
Dimensions	ø 85 mm x 42 mm
Weight	82 g

AS-132

Order No. 04.3930

new

Piezo alarm siren

- Low current consumption due to piezo technology
- ABS plastic housing
- With wall bracket
- Voltage range: 6-14 V⎓

Model	AS-132
Housing	ABS plastic
SPL	117 dB/1 m
Alarm signal	wailing sound
Power supply	12 V⎓/150 mA
Dimensions	ø 56 mm x 40 mm
Weight	82 g

AS-142
Order No. 04.3940

new

Piezo alarm siren
- Low current consumption due to piezo technology
- ABS plastic housing
- With mounting plate
- Voltage range: 6-14 V⎓

Model	AS-142
Housing	ABS plastic
SPL	117 dB/1 m
Alarm signal	wailing sound
Power supply	12 V⎓/150 mA
Dimensions	56x74x49 mm
Weight	90 g

CCTV-LABL/OS
Order No. 46.2790

new

Sticker "SECURITY", adheres to the outside
- Size: 120x80 mm
- Material: PVC film
- Resistance to weathering and light: 2 years
- Adhesive strength: 2 years

CCTV-LABL/IS
Order No. 46.2780

new

Sticker "SECURITY", adheres to the inside
- Size: 120x80 mm
- Material: PVC film
- Resistance to weathering and light: 2 years
- Adhesive strength: 2 years

ALARM-LABL/IS
Order No. 46.2760

new

Sticker "ALARM", adheres to the inside
- Size: 120x80 mm
- Material: PVC film
- Resistance to weathering and light: 2 years
- Adhesive strength: 2 years

ALARM-LABL/OS
Order No. 46.2770

new

Sticker "ALARM", adheres to the outside
- Size: 120x80 mm
- Material: PVC film
- Resistance to weathering and light: 2 years
- Adhesive strength: 2 years

The new high-end tweeters RBT-10, RBT-20 and RBT-35SR

are part of the so-called real ribbon tweeters. The audio signal flows through the entire cone which is of extra low weight and consists of an aluminium film. A built-in high-quality transformer converts the low impedance of this cone into 5-8 Ω which is non-critical for the amplifier. Ribbon tweeters impress by an extra fine and brilliant reproduction of the high frequency range. Due to continuous further development, it is already possible to use these ribbon tweeters with crossover frequencies from 2,500 Hz on, depending on the type. This makes them a top choice whenever hi-fi speakers or studio monitors of the highest quality are required. Ribbon tweeters require a crossover network for operation!

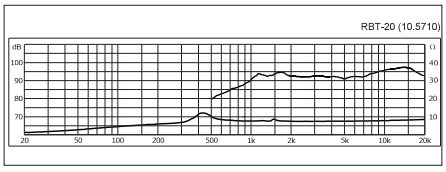
RBT-20

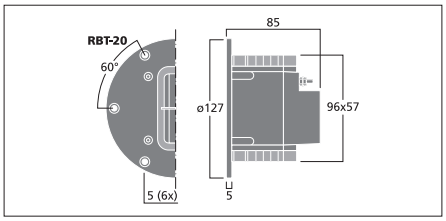
Order No. 10.5710

50 W MAX PAAR PAIR new

Pair of high-end ribbon tweeters, matched, 50 W_{MAX}, 25 W_{RMS}, 8 Ω

- Real ribbon tweeter with neodymium magnet system and transformer
- Fine and brilliant reproduction of the high frequency range
- Smooth, unembossed aluminium sandwich cone: 12x60x0.01 mm
- For use from 2,300 Hz on via 18 dB filter
- Robust aluminium front panel with waveguide and protective grille





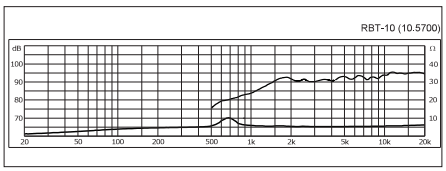
RBT-10

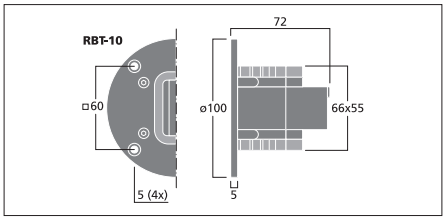
Order No. 10.5700

25 W MAX PAAR PAIR new

Pair of high-end ribbon tweeters, matched, 25 W_{MAX}, 12 W_{RMS}, 5 Ω

- Real ribbon tweeter with neodymium magnet system and transformer
- Fine and brilliant reproduction of the high range
- Smooth, unembossed aluminium sandwich cone: 8x38x0.015 mm
- For use from 3,500 Hz on via 18 dB filter
- Robust aluminium front panel with waveguide and protective grille





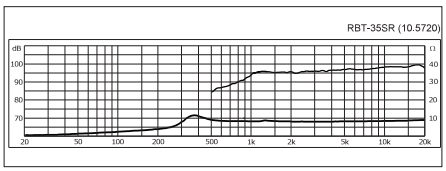
RBT-35SR

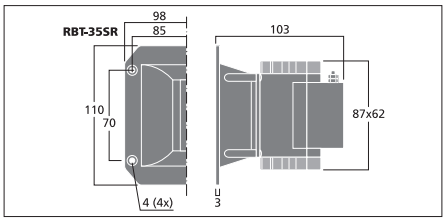
Order No. 10.5720

25 W MAX PAAR PAIR new

Pair of high-end ribbon tweeters, matched, 25 W_{MAX}, 12 W_{RMS}, 7 Ω

- Real ribbon tweeter with neodymium magnet system and transformer
- Due to horn front attachment, a very high sound pressure and even beaming
- Fine and brilliant reproduction of the high frequency range
- Smooth, unembossed aluminium sandwich cone: 9x60x0.015 mm
- For use from 2,500 Hz on via 18 dB filter
- Horn with mounting flange and protective grille

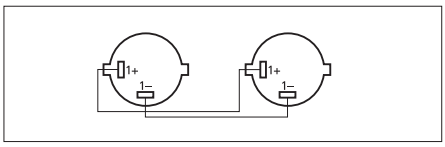




Model	RBT-20	RBT-10	RBT-35SR
Impedance (Z)	8 Ω	5 Ω	7 Ω
Max. frequency range	1,200-40,000 Hz	2,000-40,000 Hz	1,100-30,000 Hz
Rec. crossov. frequ. (fmax.) (12 dB/oct.)	> 2,800 Hz	> 4,000 Hz	> 3,000 Hz
Music power	50 W_{MAX}	25 W_{MAX}	25 W_{MAX}
Power rating (P)	25 W_{RMS}	12 W_{RMS}	12 W_{RMS}
SPL (1 W/1 m)	94 dB	90 dB	96 dB
Magnet diameter	neodymium rods	neodymium rods	neodymium rods
Mounting cutout	55x95 mm	55x70 mm	70x90 mm
Mounting depth	85 mm	70 mm	101 mm
Dimensions	ø 127 mm	ø 100 mm	98x110x101 mm
Weight	750 g	420 g	520 g

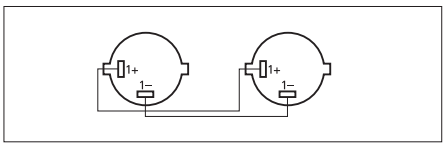
Speaker Cables
"HIGH FLEXIBLE"
- Fitted with NEUTRIK Speakon plugs NL-2FX
- Highly flexible cable material

Model	Order No.	Cores	Length	Colour
MSC-502/SW	11.2210	2 x 1.5 mm²	2 m	black
MSC-520/SW	11.2220	2 x 1.5 mm²	20 m	black



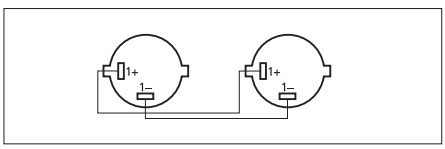
Speaker Cables
- Fitted with NEUTRIK Speakon plugs NL-2FX
- "Economy" cable material

Model	Order No.	Cores	Length	Colour
MSCA-502/SW	11.2230	2 x 1.5 mm²	2 m	black
MSCA-505/SW	11.2240	2 x 1.5 mm²	5 m	black
MSCA-510/SW	11.2250	2 x 1.5 mm²	10 m	black



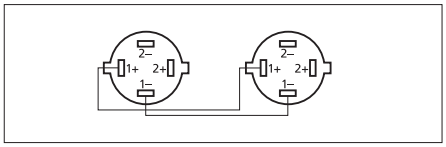
Speaker Cables
- Fitted with NEUTRIK Speakon plugs NL-2FX
- "Economy" cable material

Model	Order No.	Cores	Length	Colour
MSCA-610/SW	11.2260	2 x 2.5 mm²	10 m	black
MSCA-615/SW	11.2270	2 x 2.5 mm²	15 m	black
MSCA-620/SW	11.2280	2 x 2.5 mm²	20 m	black



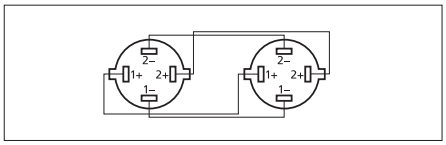
Speaker Cables
"HIGH FLEXIBLE"
- Fitted with NEUTRIK Speakon plugs NL-4FX
- Highly flexible cable material

Model	Order No.	Cores	Length	Colour
MSC-102/SW	11.2170	2 x 2.5 mm²	2 m	black
MSC-120/SW	11.2180	2 x 2.5 mm²	20 m	black



Speaker Cables
"HIGH FLEXIBLE"
- Fitted with NEUTRIK Speakon plugs NL-4FX
- Highly flexible cable material

Model	Order No.	Cores	Length	Colour
MSC-202/SW	11.2190	4 x 2.5 mm²	2 m	black
MSC-220/SW	11.2200	4 x 2.5 mm²	20 m	black



SPC-525CA
Order No. 11.2160

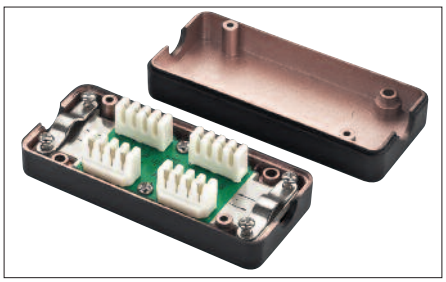
new

Speaker Cable "Economy"
- 100 m reel
- 2 x 2.5 mm²
- Copper-clad aluminium litz wire (CCA)
- Conductor protected by fabric inlay and fleece sleeving
- Outside diameter: 8.5 mm

CAT-6BOX
Order No. 08.0370

new

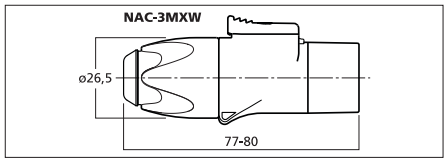
Network junction box, for an easy connection of 2 network installation cables.
- Category 6 (Cat. 6), 600 MHz
- Fully shielded version with cable strain relief
- LSA connection technology
- Dimensions: 84x24x37 mm
- Weight: 53 g

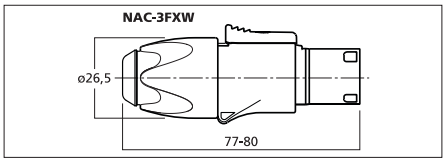


NEUTRIK POWERCON True1 Connectors

IP65 new

- Correspond with safety requirements according to IEC 60320, VDE certified
- For mains connection up to 250 V~/16 A
- Connections for ground, phase and neutral conductor, connector can be connected under load
- Robust version with latching device and cable inlet with self-adjusting clamps (plugs and inline jacks only)
- Self-extinguishing according to UL 94V-0
- Protection class IP65 (NAC-3FXW and NAC-3MXW)





Model	Order No.	Position	Type	Power rating	Insulating resistance
NAC-3FXW	**34.3050**	A	inline jack	250 V~/16 A	> 100 MΩ
NAC-3MXW	**34.3060**	B	plug	250 V~/16 A	> 100 MΩ

USBA-10AA

Order No. 06.8490

USB new

USB adapter, straight
- USB 2.0, Hi-Speed
- 2 x USB A jack

USBA-30AA

Order No. 06.8500

USB new

USB adapter, right-angle
- USB 2.0, Hi-Speed
- 1 x USB A jack
- 1 x USB A plug

USBA-30ABM

Order No. 06.8510

USB new

USB adapter, straight
- USB 2.0, Hi-Speed
- 1 x USB A jack
- 1 x mini USB B plug, 5 poles

USBA-30BMBMC

Order No. 06.8520

USB new

USB adapter, straight
- USB 2.0, Hi-Speed
- 1 x micro USB B plug
- 1 x mini USB B jack, 5 poles

MKPA-27

Order No. 11.2300

5% new

MKP film capacitor, 250 V
- Top-quality capacitors for high-end crossover frequencies
- Metallised polypropylene film
- Extra low loss factor
- Resistant to aging
- Axial design

MKTA-27

Order No. 11.2290

5% new

MKT film capacitor, 250 V
- Top-quality capacitors for high-quality crossover networks
- Metallised polyester film
- Very low loss factor
- Resistant to aging
- Axial design

Model	Order No.	Quantity	Capacitance	Rated voltage	Housing	Pin spacing
MKPA-27	**11.2300**	1	2.7 µF	250 V⎓	ø 15.5 mm x 31 mm	32.5 mm
MKTA-27	**11.2290**	1	2.7 µF	250 V⎓	ø 12.5 mm x 31 mm	32.5 mm

COMPANY GROUP

MONACOR INTERNATIONAL

This logo stands for the company group MONACOR INTERNATIONAL, consisting of the parent company MONACOR INTERNATIONAL GmbH & Co. KG at Bremen, Germany and the international subsidiaries.

This logo is an internationally registered and protected brand of MONACOR INTERNATIONAL GmbH & Co. KG.
This logo indicates the affiliation to the company group MONACOR INTERNATIONAL.

BRANDS

MONACOR

These logos are internationally registered and protected brands of MONACOR INTERNATIONAL GmbH & Co. KG. The protection includes the whole product range of the company.

These brands are intended mainly for retailers and installers of professional surveillance technology and PA technology and their customers.

IMG Stage Line

This logo is an internationally registered and protected brand of MONACOR INTERNATIONAL GmbH & Co. KG. The protection includes the whole product range of the company.
This brand features the slogan "Intelligent Solutions for Light & Sound" and offers professional equipment for event technicians, installers, musicians and DJs.

CARPOWER by MONACOR

This logo is an internationally registered and protected brand of MONACOR INTERNATIONAL GmbH & Co. KG. The protection includes the whole product range of the company
This brand is intended mainly for retailers and end users of high-performance car hi-fi products.

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All products of MONACOR INTERNATIONAL are tested continuously to ensure a constant quality level and to maintain quality standards. All products which are subject to the CE guidelines as well as the electric and electronic subassemblies which are subject to the directive for motor vehicles are tested according to the respective standards and carry the CE mark. In consequence, these products can be sold in all EC countries without further tests or approvals.

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- * Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
- HDMI™ is a registered trademark of HDMI Licensing L.L.C.
- We cannot be held responsible for printing errors, should they occur. We reserve the right to make technical changes without prior notice.
- The technical specifications stated are according to the information of the manufacturer.
- Due to production tolerances, technical data may vary slightly.
- Damage resulting from unauthorised servicing of the products thus causing changes as well as improper handling resulting in consequential damage are excluded from the warranty. We will not be liable for changes of the state of the products resulting from improper storage, other interventions or improper use.
- If the units are interfered with, the CE approval will no longer apply. All products are always suitable for indoor use only, unless stated otherwise. The products are not suitable for installations into aircrafts or surface mounting onto aircrafts.
- The products do not correspond to the medical products directive 2007/47/EC.
- If the products are to be put out of operation definitively, they must be taken to a local recycling plant for disposal which is not harmful to the environment.

Technical Information

- Before first use of the products, please read the instruction manual carefully!
- The products correspond to the directive for electromagnetic compatibility 2004/108/EC, the directive 2011/65/EU (RoHS) and where applicable to the low voltage directive 2006/95/EC with the directive 2009/125/EC (ErP).
- When operating with voltages of over 42 V, please always observe the respective safety measures.
- Before opening any products operated with 230 V mains voltage, disconnect the products from the mains!
- Make sure that the supply voltage is disconnected before working on components and modules. Existing capacitors must be discharged.
- Mains cables and test cables have to be examined for damage regularly. Never pull on the cable to disconnect the plug from the socket.
- Mains cables and fuses must only be replaced by skilled personnel.
- Unless otherwise stated:
  - protect the products from moisture and heat,
  - always observe the admissible ambient temperature of 0-40 °C.
- Do not use a very high volume level when using headphones. Permanent high volume may damage your hearing!
- A soldering process which is too long and too hot may cause damage to the corresponding products. Choose a soldering temperature that is suitable for the material used. No liability can be assumed for damage to the product or consequential damage caused by improper handling.
- The plugs, jacks, switches, rotary switches and potentiometers shown in this catalogue are only suitable for connection to safety extra low voltage (SELV) or signal voltage unless the item is designed for a higher voltage (see text or table).
- If the fixing nuts of panel jacks or panel plugs are overtightened, this may cause damage to the whole component. In case of improper handling, no liability can be assumed for this or consequential damage.
- The heat must be eliminated by air circulation. Therefore, do not cover ventilation slots with anything. Do not put or drop anything through the ventilation slots. Otherwise, there will be danger of an electric shock.
- Only use a dry, soft cloth for cleaning the products. Chemicals must not be used in any case.

Information on the German Product Liability Act

According to the law dated 15 December 1989 governing product liability which was last amended by the law dated 19 July 2002, manufacturers, importers and retailers are obliged to compensate for damage caused by a faulty product under certain prerequisites.

A product can already be considered faulty if its presentation leaves a private, non-commercial end user with a wrong impression as to its safety in use or if it is to be expected that the private end user will not observe the required safety regulations when using the product or will apply an excessive operating voltage to it, except if this user has been informed as to the necessity to observe the safety regulations and specified voltages, etc.

In your own interest and for your customers' safety, therefore please draw your non-commercial customers' attention to the following:

The products listed in this catalogue may only be used for the stated purpose. If there are any doubts as to the purpose of the goods, questions must be clarified with an authorised expert or with the service department of MONACOR INTERNATIONAL.

The following EN standards and VDE (Verband Deutscher Elektrotechniker = Association of German Electrical Engineers) regulations must be observed:

Electromagnetic compatibility:
EN300422, EN301489, EN55013, EN55020, EN61000-3-2, EN61000-3-3, EN61000-6-1, EN61000-6-3

Low voltage directive:
DINVDE0100, DINVDE0532, EN60065, EN60742, EN60570, EN60335, EN60598, EN60950, EN61010, EN62471

Motor vehicles directive:
directive 72/245/EEC, changed by the directive 2004/104/EC

In Germany, the above-mentioned regulations can be obtained from:

VDE-Verlag GmbH
Bismarckstraße 33
10625 Berlin
Germany
Phone: +49 (0) 30 / 348001-0
Fax: +49 (0) 30 / 3417093

VDE-Verlag GmbH
Merianstraße 29
63069 Offenbach
Germany
Phone: +49 (0) 69 / 840006-0
Fax: +49 (0) 69 / 84000655

Notes Regarding the Approval of Wireless Systems

The wireless microphone systems in the frequency ranges 823 MHz to 832 MHz, 863 MHz to 865 MHz, 1,785 MHz to 1,805 MHz and 2,400 MHz to 2,483.5 MHz are generally approved and licence-free!
These systems are licence-free in the EU!

Every wireless system has been examined by a notified body and has been approved in the EU according to the R+TTE directive. However, a frequency assignment for the systems in the frequency range 506 MHz to 542 MHz, 518 MHz to 542 MHz, 672 MHz to 697 MHz and 740 MHz to 776 MHz for the corresponding area in which the unit is to be used must be applied for at the respective national authority.
These systems require a licence in the EU!

In Germany, the frequency assignment has to be applied for at the corresponding branch of the Federal Network Agency (BnetzA, Germany).

The declaration of conformity can be found on our website: www.imgstageline.de. The forms for the frequency assignment as well as the ruling 91/2005 can be found on the website of the Federal Network Agency www.bundesnetzagentur.de.
For countries outside of Europe, please consult the authorities of the corresponding country.

Please observe the notes in the operating instructions!

MONACOR INTERNATIONAL GmbH; March 2014

MONACOR INTERNATIONAL - Your reliable partner - worldwide.